A NATURAL HISTORY OF *ENGLISH* INSECTS.

Illuſtrated with

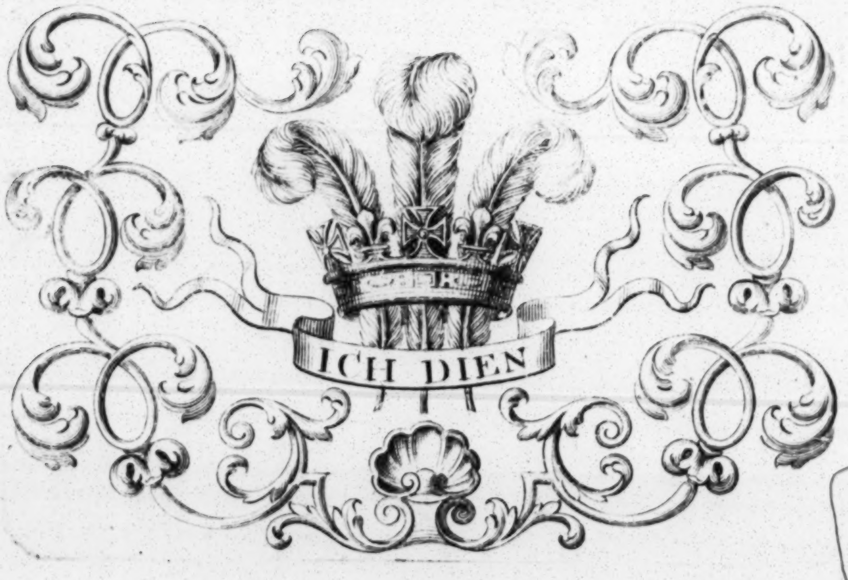
A Hundred COPPER PLATES, curiouſly Engraven from the Life:

And exactly Coloured by the AUTHOR

ELEAZAR ALBIN, Painter.

To which are added, Large NOTES, and many Curious OBSERVATIONS.

By W. DERHAM, D. D. Fellow of the *Royal Society*.



LONDON:
Printed for W. INNYS and R. MANBY, Printers to the *Royal Society*,
at the Weſt-End of St. *Paul's*.
MDCCXXXV.

To Her ROYAL HIGHNESS the

PRINCESS of *WALES*.

MADAM,

MY profound Veneration for Your ROYAL HIGHNESS's Perſon, had prevented this Preſumption; but Your readineſs in condeſcending to Patronize whatſoever may tend to the Honour of God, [whoſe infinite Power is no leſs viſible in the

Smalleſt of his Works, than in thoſe of the Largeſt Magnitude] or the Good of Mankind, Encouraged me to offer the following Work at Your ROYAL FEET, moſt Humbly begging Your Pardon and Protection; who am, may it pleaſe Your ROYAL HIGHNESS, with the greateſt Duty,

Your ROYAL HIGHNESS's

Moſt Faithful, and

Moſt Obedient,

Humble Servant,

ELEAZAR ALBIN.

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The Right Honourable the Lady Stuart.
The Right Honourable the late Lady Elizabeth Somerſet.
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PREFACE.

TEACHING to Draw, and Paint in Water-Colours, being my Profeſſion, firſt led me to the obſerving of *Flowers* and *Inſects*, with whoſe various Forms and beautiful Colours I was very much delighted, eſpecially of the latter, ſeveral of which I painted after the Life, for my own Pleaſure: After ſome time this brought me acquainted with Mr. *Dandridge*, a very ingenious Man, and very curious in obſerving the Works of Nature: He had diverted himſelf ſome Years with collecting *Inſects*, and obſerving their ſeveral Progreſſions from the *Egg*, thro' their *Worm*-State, to the *Fly*, which is their State of Perfection; this curious Perſon employed me in painting *Caterpillars* for him, and recommended me to Mrs. *How*, Widow of the late famous Phyſician of that Name: For this curious Lady I painted a great Number of both *Caterpillars* and *Flies*, and likewiſe ſeveral Things relating to Natural Hiſtory for Sir *Hans Sloane*: After this I was introduc'd to Her Grace *Mary* the late Dutcheſs Dowager of *Beaufort*, who imployed me in the ſame manner; this excellent Lady firſt perſwaded me to undertake the following Work, and encouraged me by procuring me Subſcriptions from ſeveral Perſons of the firſt Quality: While this good Lady lived it went on apace, and I am perſuaded had been finiſhed long ſince if it had pleaſed God to have ſpared her; but after the loſs of my Patroneſs, Subſcriptions coming in ſlowly, and my Circumſtances (having a great Family to provide for) not being able to carry it on without, retarded it. Theſe Conſiderations I hope will diſpoſe thoſe honourable and worthy Perſons who ſubſcribed early to pardon me that they have expected it ſo long.

Thus

Thus much I thought proper to ſay concerning what put me upon this Undertaking, and likewiſe to acquaint the World with the Reaſons why it has been ſo long in hand: I ſhall now ſay ſomewhat of the Work it ſelf.

In the firſt place, in all my Drawings, particularly of the *Inſects*, I have copied exactly after the Life; having obſerved it as a great Fault in thoſe who have gone before me in this Way, that they either did not look often enough at their Pattern, or affected to make the Picture outdo Nature: This I have carefully avoided. So likewiſe in my Deſcriptions, I have choſen the plaineſt Words that I could find, and have always related with all poſſible exactneſs meer Fact; leaving it to Perſons of more Learning, and greater Capacity, to cultivate this Part of Natural Hiſtory; which I am perſwaded may be improved to the Glory of our great Creator, and very much conduce to the Benefit of Mankind.

Thro' the whole Courſe of my Obſervations, I have not met with one Inſtance, that gave me Reaſon to doubt of *Inſects*, in general, being produced by Animal Parents of the ſame Species. In this I am confirmed by the curious Experiments and Obſervations of *Franciſco Redi*, an ingenious *Italian*, who writ a Treatiſe on this Subject: Tho' I cannot help admiring how ſo exact an Obſerver of Nature could be led into ſo great a Miſtake, as to think that ſome *Inſects* were the Product of thoſe Vegetables in whoſe Excreſcences they had been nurs'd up; ſince it will be evident to any one who will take the Trouble carefully to examine it, that a *Fly*'s piercing the outer Skin, or Bark of a Plant, and laying her *Egg* within it, ſo alters the Texture of the *wounded* Veſſels, that the Sap paſſing thro' them forms the Excreſcence; which ſerves not only as a convenient Matrix, or Neſt, but likewiſe affords proper Nouriſhment to the *Worm*, when it is hatched,

hatched, while it continues in that State; and proves a Security to it while in its *aurelia*-State, 'till it becomes a *Fly*; which then makes its way thro' it, tho' never ſo thick: which is very much to be admired, conſidering the Smallneſs of ſome of theſe *Flys*, and the Thickneſs and Solidity of the Excreſcences they are bred in. This is eaſily obſerved in the common Gall, in which, if there is no hole, you will certainly find a dead *Inſect*, either a ſtarved *Worm* or *Fly*, according to the State it was in, when the Gall was gathered; but if there is a hole, the *Fly* had acquir'd its Perfection and is gone.

No one, who is at all converſant in theſe Inquiries, can avoid admiring, and adoring the infinite Goodneſs of God, who in his Providence has given an Inſtinct to all his animal Creatures, even of the loweſt Order, ſufficient to direct them in all Things neceſſary for their own Preſervation, and Propagation of their Kind: To this end they do not lay their *Eggs* looſely, ſo as to be driven from Place to Place, (much leſs from Country to Country) by the Winds; but fix them on *Plants* or *Inſects*, &c. which will be proper Food for their *Worms*, while in their growing State; and thoſe that are laid only ſuperficially on Plants, are faſtned by a Glew, ſo tenacious that the Rains can't waſh them off: And as for thoſe that are laid contiguous, they are not laid in a heap, but in exact Order, and ſo diſpoſed, that one may not hinder the *Worm* of the others from coming forth: And what is very remarkable in ſome of them, a determined Side, or End, is always placed outward.

Some few of the *Moth* Kind I have obſerved to ſcatter their *Eggs* with a ſeeming Careleſsneſs as they fly; theſe are rarely ſeen but in Meadows, and the Food of their *Caterpillars*, being generally *Graſs*, is more obvious than that of thoſe which affect particular Plants: And if I may judge of the Number of their *Eggs*, by the Size of them, in Proportion to the Bigneſs of the *Fly*, it is likely they lay three or four times the Number of *Eggs* that others do, who place them with more Care; ſo that there is abundant Proviſion made for thoſe Accidents which may befall them. It would be almoſt endleſs to mention thoſe Obſervations only, that fall in every one's Way, who has made any conſiderable Progreſs in theſe Matters.

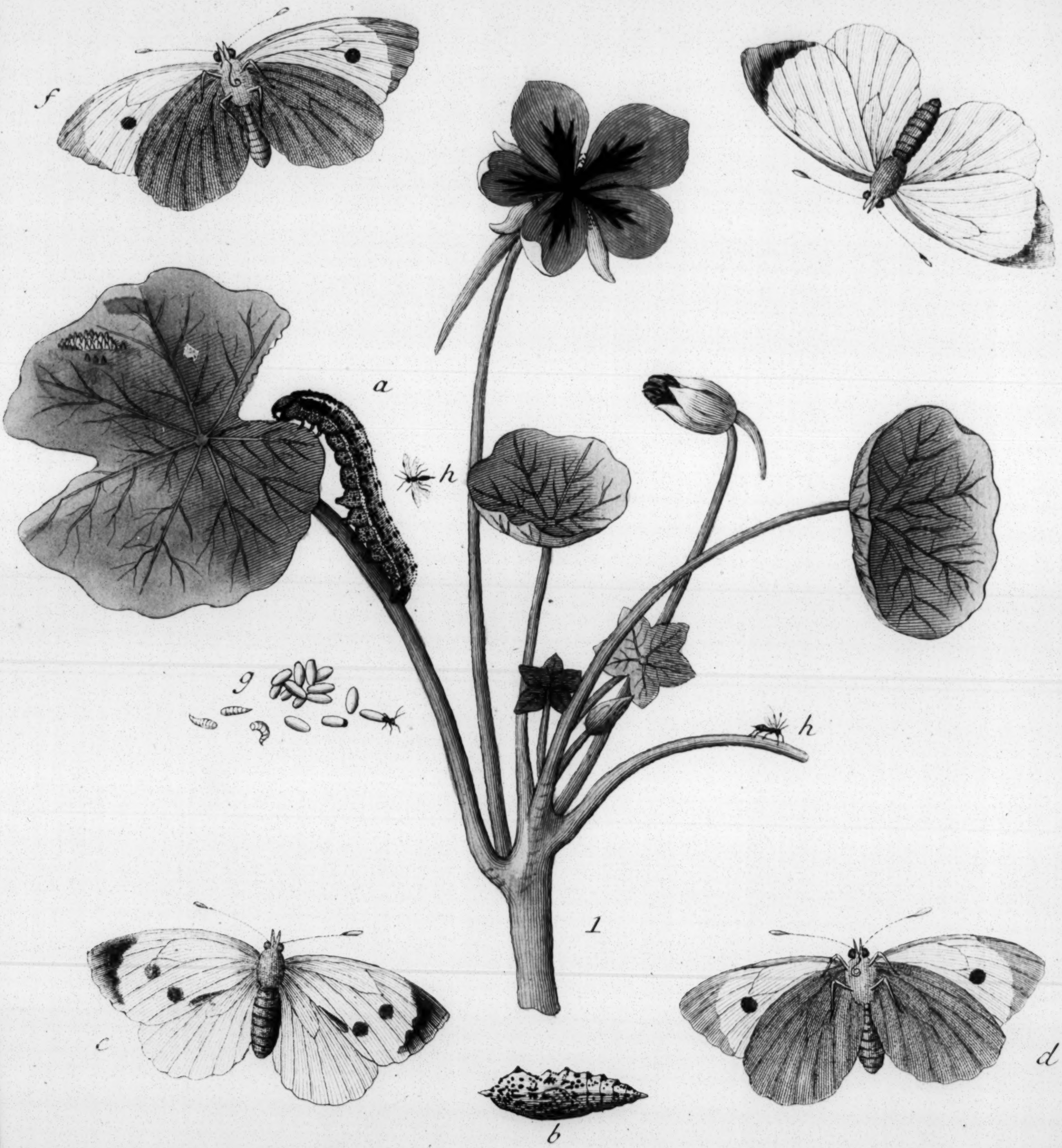
As Providence is ſo remarkable in the Propagation and Preſervation of *Inſects*, ſo are they by no means to be eſteem'd uſeleſs Creatures: for beſides their Subſerviency to one another, they likewiſe ſerve as Food to many other Creatures, both *Fiſh* and *Fowls*; young *Birds* are almoſt generally fed with them; and for that End, it is obſervable that they are to be found in greateſt Plenty in the *Spring*, which is the breeding Seaſon for moſt of the Volatile Kind. By this Means they become ſerviceable to Mankind. Nor do they ſerve us only ſecondarily, but we are indebted to them for Relief in ſeveral Diſeaſes; for all our *Honey*, *Wax*, *Silk*, Beſt *Scarlet*, &c. But as theſe Things fall under every one's View, I ſhall paſs them by, with only mentioning, to recommend to your Notice their infinite Variety, in Shape, Texture, Colours, and the exact Uniformity that is always preſerved in each Species; that you can't ſee a Spot that is remarkable, but it is found in all of the ſame Kind; and that the Colours, particularly of the *Moths* and *Butterflys* (which to our Eyes ſeem as Duſt) if they be examined by a *Microſcope*, every Particle of them is a perfect Feather, and is placed in the Wing in moſt exact Order. From the whole we cannot but conclude that they are the Work of Infinite Power, and not the Effect of meer Chance, or the Product of Corruption.

THE DESCRIPTION *of the Firſt* PLATE.

THE CATERPILLAR *a* is of a pale green, ſpotted with black. It has a yellow Line down the Back; the Belly is of a yellowiſh Colour with fainter Spots. They are found too frequently on *Cabbages* and *Colliflowers* from *June* to *September*. They feed alſo on *Naſturtium*, *Horſe-Radiſh*, *Scurvy-Graſs*, *Stock Gilly-Flowers*, and I believe on all Plants that have the Creſs Taſte. I took them about the Middle of *September*, and fed them on the *Indian Creſs* till the latter End of the ſame Month: They then tied themſelves up by the Tail, and croſs the Middle, and changed into a *Chryſalis*, marked *b* in the Copper Plate, and ſo continued till the Middle of *April*, and then came forth the *Butter-fly* called *Papilio albus vulgaris major*, the great white *Butter-fly*, the Male marked *e f*, the Female *c d*. The Male and Female of all or moſt *Butter-flies* may, beſides other Characteriſticks, be diſtinguiſhed by their *Alve* or Bellies: Here the Belly of the *Male* is lanker and more cylindrical than that of the *Female*, which is bigger in the Middle, and tapering towards each End like a Nine-pin. The *Female* hath commonly two black Spots in each upper Wing, and the *Male*'s Wings only tipped with black. Mr. *Derham* hath obſerved ſome of the *Males* to have one Spot on the upper Side of the upper Wing, and two underneath it; in the *Females* two above, and a ſort of Shade of them only underneath.

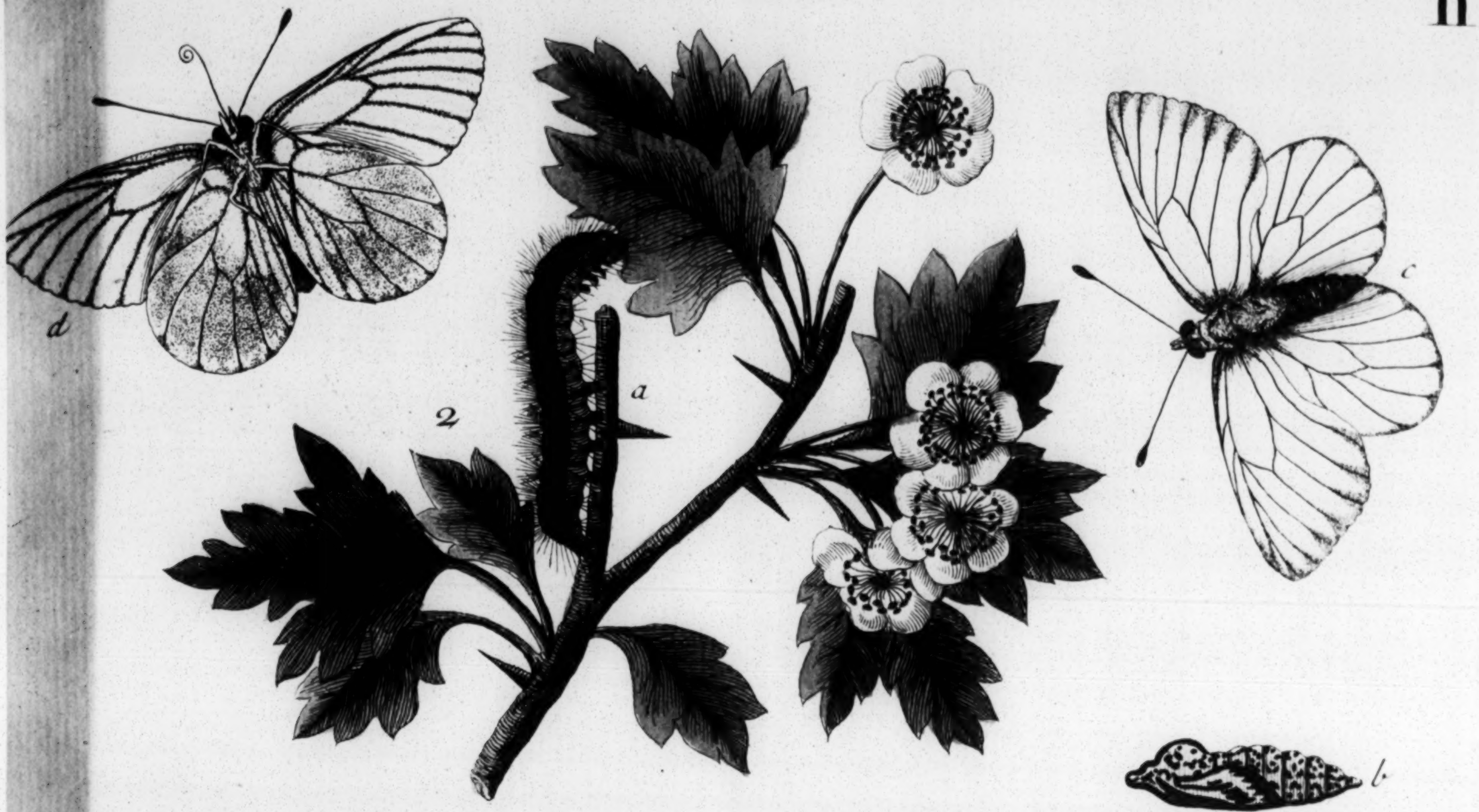
'Tis very common, when this CATERPILLAR has faſtened itſelf up, inſtead of changing into a *Chryſalis*, to have many ſmall Maggots come out of its Sides, each of which immediately ſpin themſelves up in a Caſe of yellow Silk. Theſe produce a ſmall *Ichneumon Fly*, which is expreſſed in the Copper-Plate at *h*; and ſometimes inſtead of a *Butter-fly*, after the *Chryſalis* has been changed, I have had thirty or forty *Ichneumons* of another kind come out of it, expreſs'd at *f* in Plate N° 3; theſe eat their way out of the *Chryſalis* in ſeveral Places.

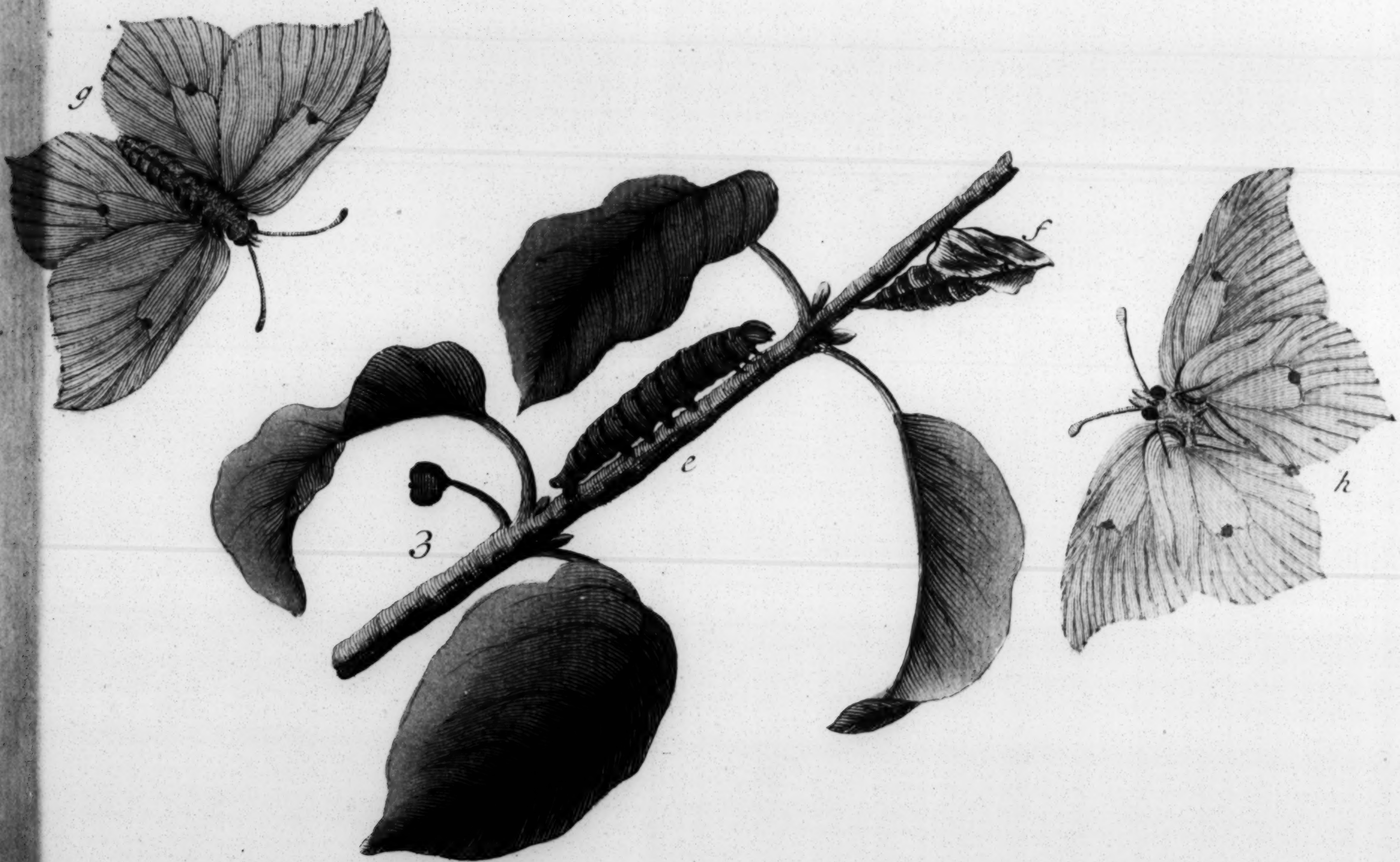
In order to preſerve your *Cabbages*, &c. from theſe CATERPILLARS, 'tis worth while to deſtroy their *Chryſalides* in the Winter. They are commonly found under the Copings of Garden-Walls, Pales, or any Place a little ſheltered; and likewiſe their Eggs, which are of a deep yellow Colour, longiſh, elegantly ſtriated, and ſtanding upright. You will commonly find many of them together, and for the moſt part on the under Side of the Leaves. See *Goedart*, *Sect.* 1. *Num.* 7. *Merian. Vol.* 1. *Chap.* 45. *Moufet*, *p.* 103. *Ray Hiſt. Inſect. p.* 113. *Liſt. in Goed. p.* 16. *Fig.* 7.



TO HER ROY^{l}. HIGHNESS
The Princess of Wales,
this plate is humbly Dedicated by Eleazar Albin.

E. Albin del. *M. V.^{dr} Gucht ſcul.*





TO THE RIGHT HONORABLE
Sarah Bodville Counteſs Dow^{r}. of Radnor
this plate is humbly Dedicated by Eleazar Albin.

E. Albin del.
H. Teraſson, Sculp. London.

THE
DESCRIPTION *of the Second* PLATE.

THE Caterpillar *a* in this Plate is Black and Orange-colour on the *Back*, the *Belly* and *Holders* of a pale greeniſh Aſh-colour, with a ſmall black Spot on each Joint; the *Head* and *Fore Feet* of a deep black. They are commonly found feeding on the *White Thorn* at the latter End of *April*, on which I fed them till the 12*th* of *May*, at which time one of them tied itſelf up by the *Tail* and croſs the *Middle*, after the Manner of the former, and changed into a *Chryſalis*, marked *b* in the Copper-Plate, of a deep Yellow marked with Black, out of which, the firſt of *June*, came *Papilio Albus Venis nigris*, the white Butter-fly with black Veins. See *Merian*, *Vol. II. Chap.* 35. *Moff. p.* 103. *Ray Hiſt. Inſect. p.* 115. *n.* 5. *Hoff. Tab.* 10. *Fig.* 14.

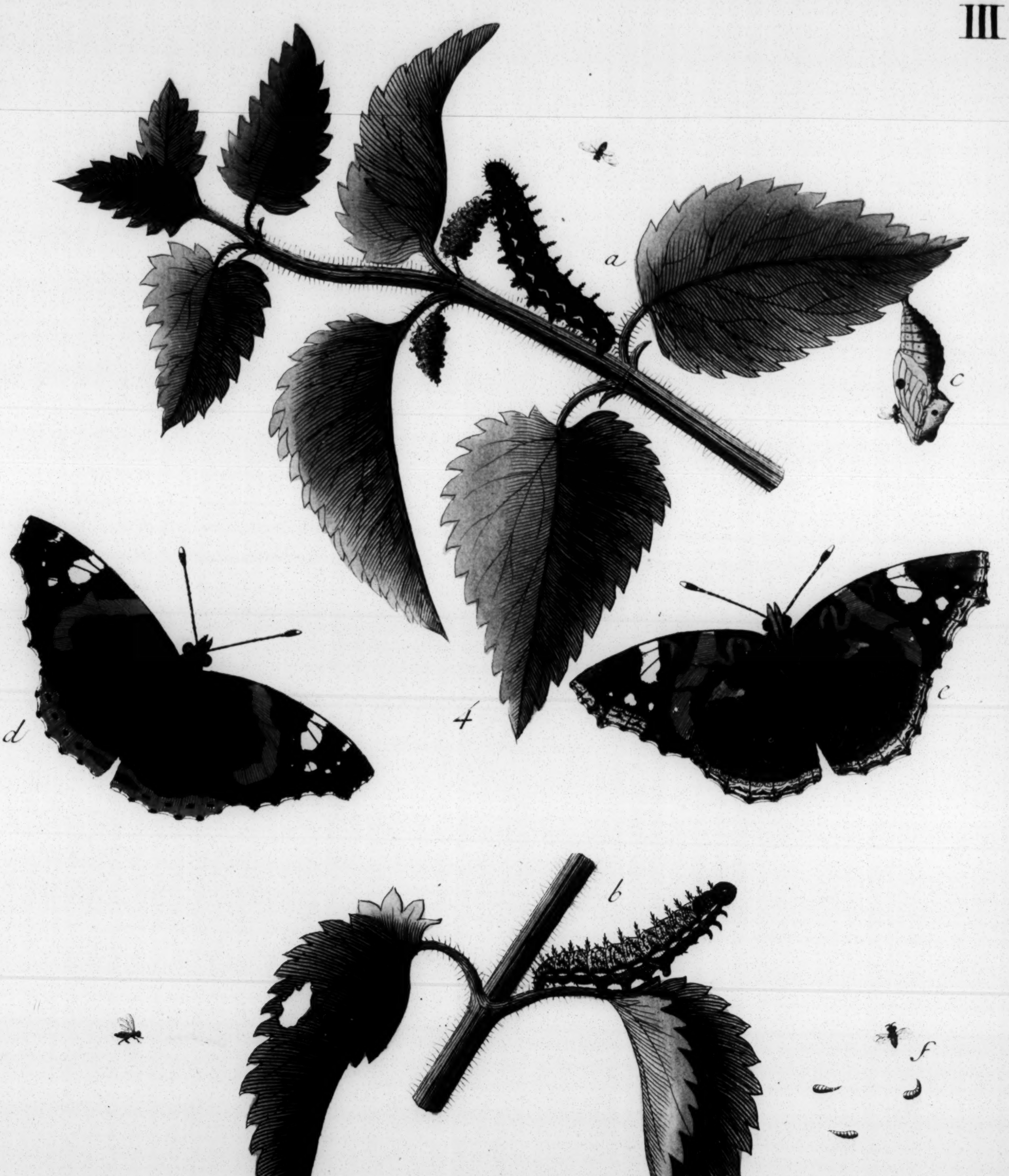
The Caterpillar marked *e* in this Plate is of a green Colour, with ſmall dark Spots on the *Back*; the *Belly* is of a whitiſh Green. I took it on the *Buckthorn* at the latter End of *May*, and fed it on the ſame till the 12*th* of *June*, at which time it tied itſelf up by the *Tail* and croſs the *Middle* like the other, and changed into an odd-ſhaped *Chryſalis*, *F*, of a green and yellow Colour, as is expreſſed on the upper Part of the *Branch*; out of which, on the 30*th* of *June*, came *Papilio præcox Sulphurea Singulis alis Singulis maculis*, the *Brimſtone Butter-fly*. See *Johnſt. Inſ. p.* 42. *n.* 1. *Tab.* 5, 6. *Moufet. p.* 103. *n.* 1. *Ray's Hiſt. Inſects*, *p.* 112. *Hoef. Tab.* 12. *Fig.* 8.

THE

DESCRIPTION *of the Third* PLATE.

THE CATERPILLAR *a* in this Plate is Black, marked with ſmall Specks of White on the upper Part, and on each Side an indented Stripe of Yellow, with black branched Briſtles round each *Joint*. The other CATERPILLAR *b* is marked and briſtled as the former, but of a yellow Colour: They feed on *Nettles*. I found them on the 17*th* of *July* in the Leaves, folded or ſpun together: They ſhelter themſelves after this Manner, that they may be ſecured from the too great Heat of the *Sun*, *Rain*, *Birds*, and a ſmall *Ichneumon Fly*, which often hinders their coming to Perfection. I fed them on *Nettles* till the 24*th* of the ſame Month, at which time the CATERPILLER hanging itſelf up by the *Tail* within the *folded Leaves*, changed into a *Chryſalis*, expreſs'd at *c*, of a Cinereous or Mouſe-Dun-Colour, out of which, on the 6*th* of *Auguſt*, came a moſt beautiful Fly called *Papillio major Nigricans, alis Maculis rubris & albis pulchræ illuſtratis*, the *Admiral Butter-fly*. I did not perceive any Difference in the Flies that were produced from theſe two CATERPILLARS: Some of their *Chryſalides* ſeemed as if gilded with *Burniſhed Gold*; out of theſe came a Brood of ſmall, but very beautiful *Ichneumons*. See *Goedart*, *Vol.* 1. *Tab.* 26. *p.* 96. *Fig. opt. Liſt. Fig.* 4. *Gr. V.* 2. *p.* 81. *Tab.* 81. *Fig. opt. Moff.* 100. *num.* 6. *an. Hoef. Tab.* 12. *Fig.* 15. Mr. *Ray Hiſt. Inſect. p.* 126.

III

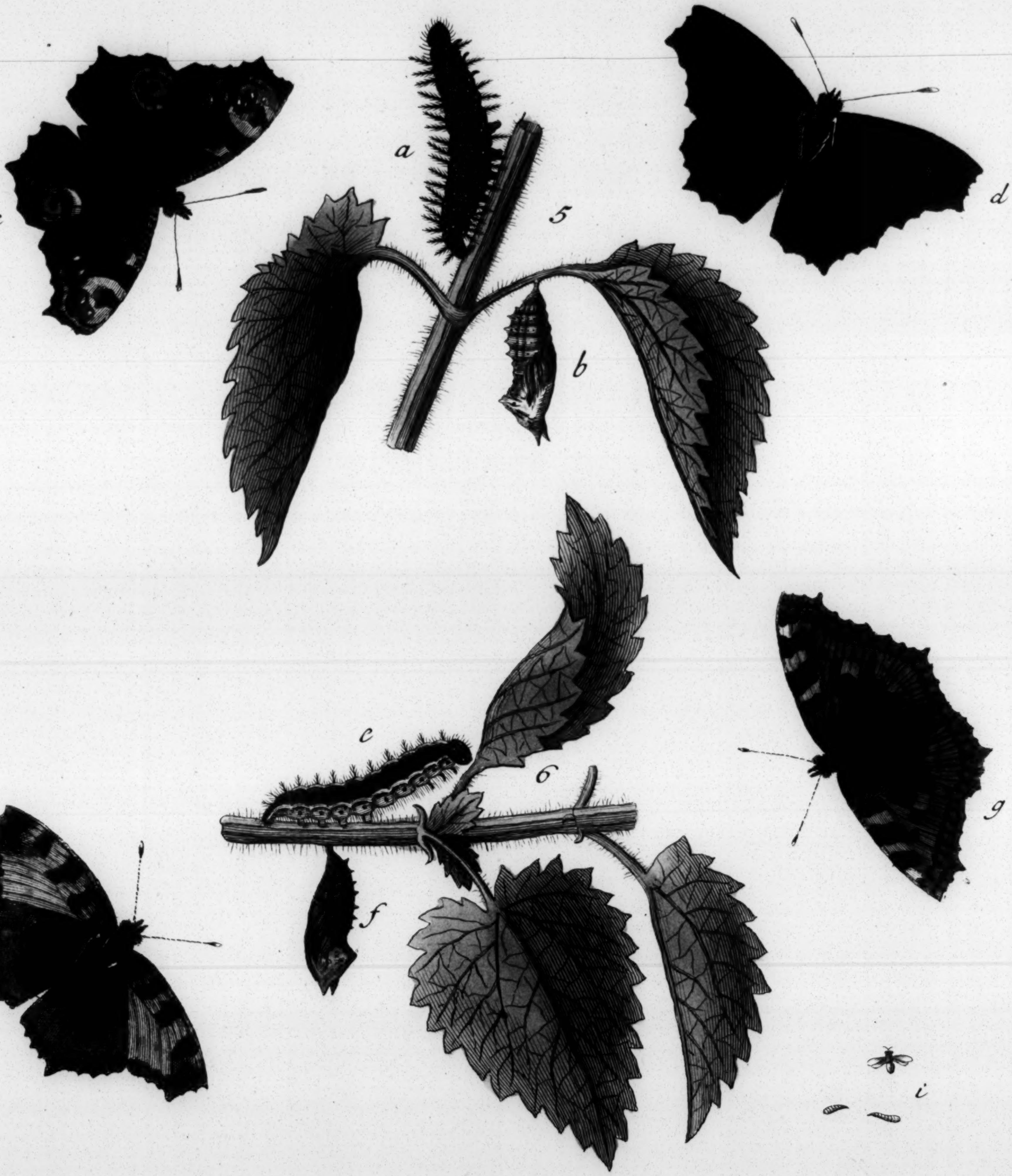


TO THE MOST NOBLE

Mary Osborn Dutchess of Beaufort

this Plate is humbly Dedicated by Eleazar Albin.

E. Albin, ad vivum, delineavit. *H. Terasson. Sculp. Lond.*



TO THE HONORABLE
Mrs Elizabeth Somersett
this plate is humbly Dedicated by Eleazar Albin.

E. Albin del.

M. V.^{dr} Gucht Sculp.

THE

DESCRIPTION *of the Fourth* PLATE.

THE CATERPILLAR *a* is black, and full of ſmall white Specks all over his Body. He is one of the branched prickly kind: Its *Head* is ſhining, and blacker than the other Parts of his *Body*; the *Holders* are of a light Brown. It was taken the 10*th* of *June* feeding on the *Nettle*, and on the 20*th* of the ſame Month it tied itſelf up by the *Tail*, and changed into a *Chryſalis* of a light green Colour, and on the 6*th* of *July* came forth a beautiful *Butter-fly*, with *Eyes* in his *Wings*, called by Mr. *Pettiver*, in his *Centuria Prima Rariorum Naturæ, Papilio Oculus Pavonis dictus*, the Peacock's Eye. This CATERPILLAR, when touched, lets fall from his Mouth a Drop or two of a dark green Liquor, but for what Reaſon I could not judge, it not being hurtful to any part of the Skin where it falls. They are ſubject to the ſame Production of *Ichneumons* as thoſe of Plate N°. 3. See *Goed. Vol.* 1. *p.* 23. *Fig. opt.* 1. *Liſt. Fig.* 1. *Graf. Vol.* 1. *Tab.* 26. *p.* 53. *Ray Hiſt. Inſect. p.* 122. *n.* 14. *Mouſet, p.* 99. *n.* 4. who calls it *Omnium Regina*, the Queen of Butter-flies. See *Hoeſ. Tab.* 12. *Fig. opt.* 9. *Jonſt. Inſ.* 40. *n.* 4. *Tab.* 5.

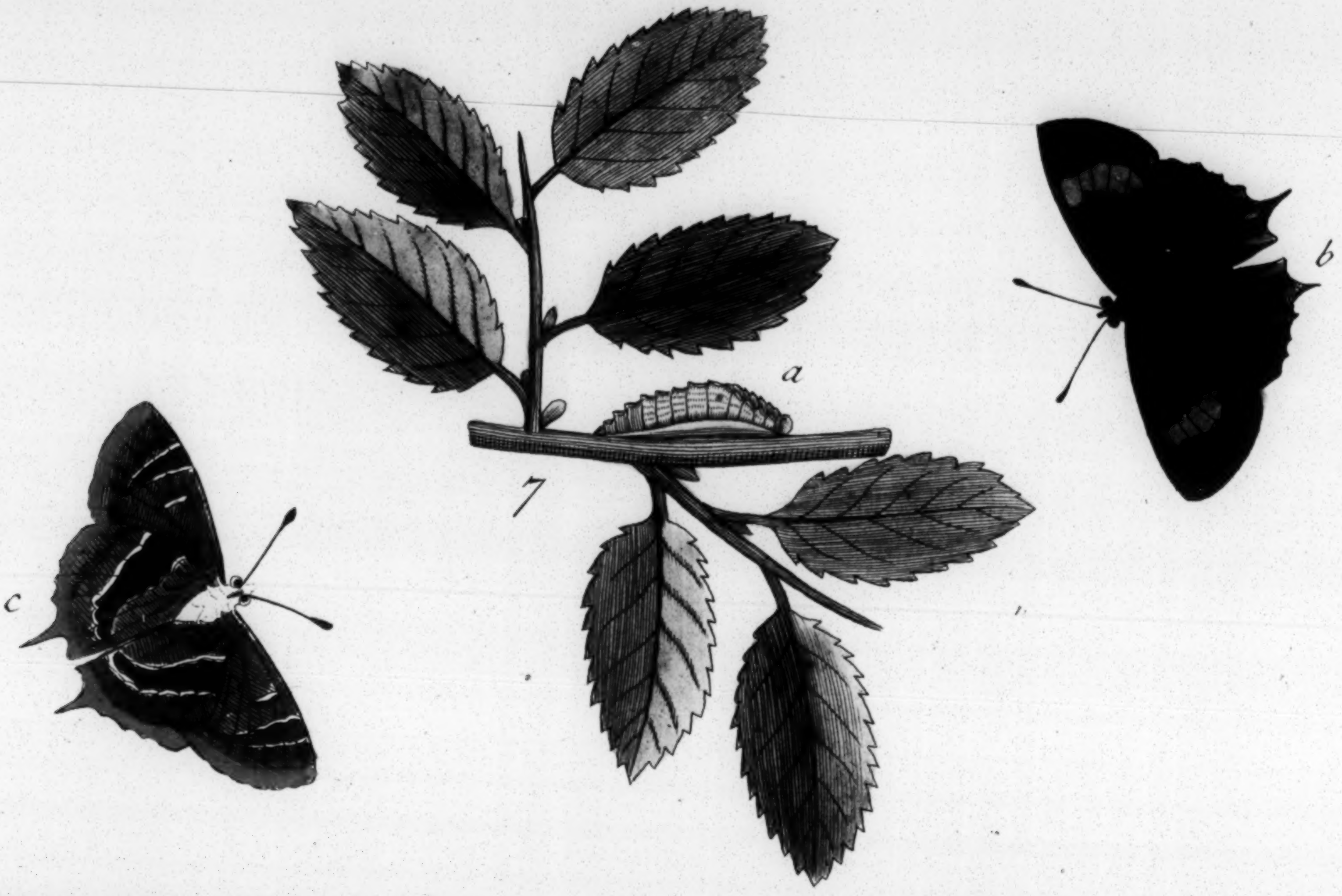
The CATERPILLER, marked *e* in this Plate, is of an Olive Colour on the Back, edged with a Stripe of Yellow, and a dark ſhining Spot on each Joint. The *Belly* and *Holders* are of a light Hair Colour, ſpotted with ſmaller Spots. This CATERPILLER was taken on the 26*th* of *May* feeding on the *Nettle*, and on the 7*th* of *June* ſome of them tied themſelves up by the *Tail*, and changed into a *Chryſalis* of a light brown Colour, out of which came, in 14 Days, a *Fly* called *Papilio Teſtudinarius minor*, the leſſer Tortoiſe-ſhell, from its Wings repreſenting the Shell of that *Animal*. This *Butter-fly* lives all Winter, and hides himſelf in *Cottages, Old Trees*, and other Places of Refuge. The *Chryſalides* are often found gilded, from whence it was called *Aurelia* or *Chryſalis*, which is now become the common Name of the Caſes that *Flies* lye while in this State. Theſe produced a Brood of ſmall *Ichneumons*, expreſs'd in the Plate at *i*. See *Goed. Vol.* 1. *p.* 90. *Fig. opt.* 21. *Liſt. Fig.* 2. *Graf. Vol.* 1. *p.* 89. *Moff.* 101. *num.* 11, figured againſt *num.* 12. *Hoeſ. Tab.* 2. *Fig. opt.* 16. *Ray, pag.* 117. *n.* 1.

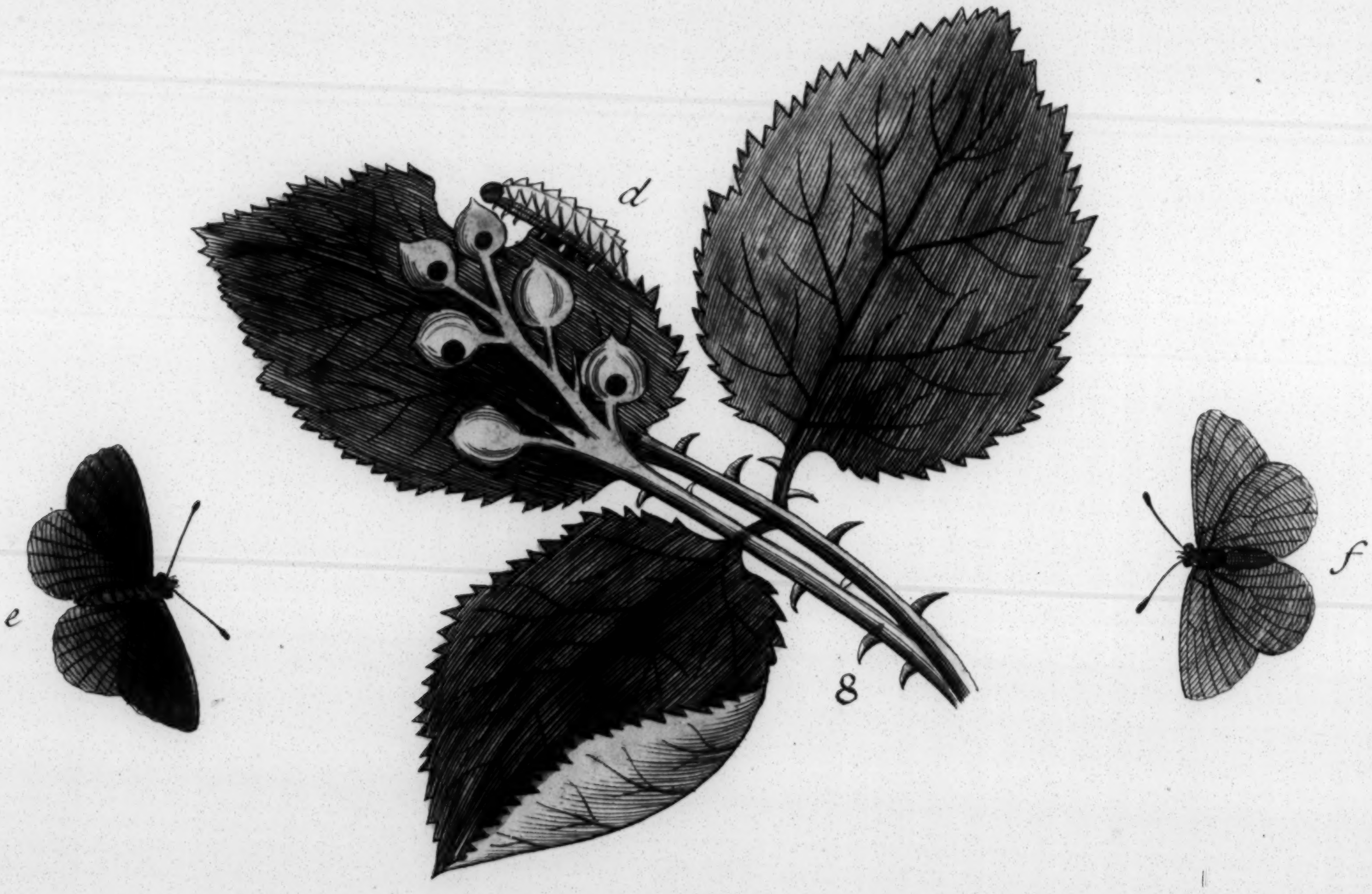
THE

DESCRIPTION *of the Fifth* PLATE.

THE CATERPILLER *a* is of a light Sea-green Colour. It was taken near *Hornſey* Wood the 18*th* of *June*, feeding on the *Black-Thorn*, and the 18*th* of *June* it tied itſelf up after the Manner of the white *Butter-fly*, and the 16*th* of *June* came forth the *Hair-ſtreak Butter-fly*. The upper Side of the Wings, marked *b*, are of a dark Brown, with a large Spot of Orange-colour in each upper Wing, and three ſmall Spots of the ſame Colour toward the Bottom of each under Wing. The under Side of the Wings *c* are Orange-colour, with large Streaks of dark Red edged with White, and a Shade of bright Red on the Edges of both the upper and under Wings. This CATERPILLER is very rare, and ſcarce to be met with.

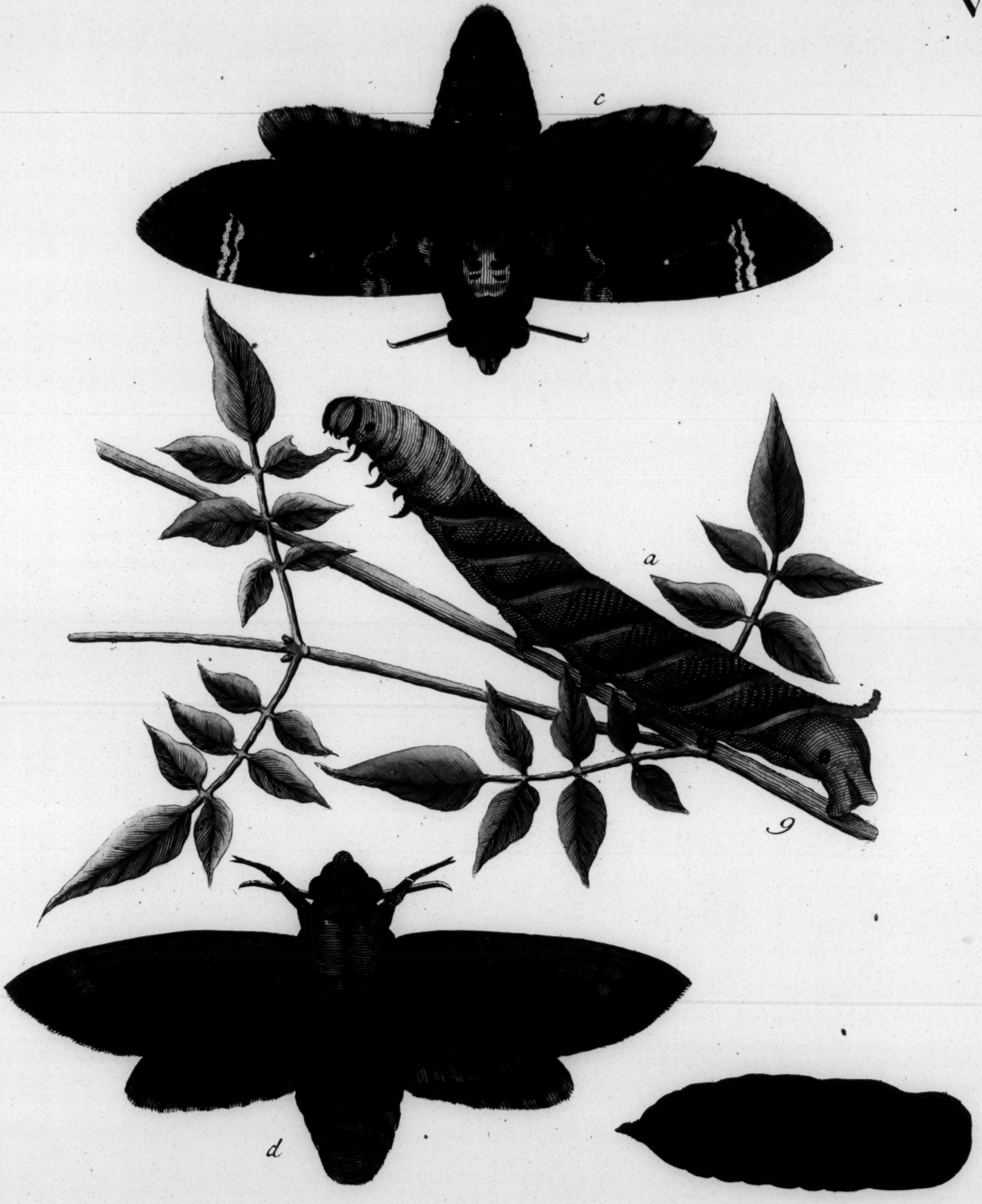
The CATERPILLER *d* in this Plate is like the former in Colour, with oblique Streaks of a dark green on the *Sides*. His *Head* is of a yellowiſh Brown. It was taken the 4*th* of *July* near *New-Croſs* in *Kent*, feeding on the Inſide of the *Black-berry Buds*, making a ſmall Hole by which it entered, and eating all the inward Part, left the *Bud* ſeemingly entire. It fed on them till the 15*th* of *July*, and then tied itſelf up after the Manner of the other *Butter-flies*, and changed into a *Chryſalis*, and the 13*th* of *April* the Year following came forth a *Butter-fly*. The upper Side of the Wings are of a light brown Colour, the under Side of a beautiful Green. I have found no Account of either of theſe *Butter-flies* in any *Author*.





TO THE RIGHT HON^{BLE}
John Lord Sommers Baron of Everſham &c.
E. albin del. *this Plate is humbly Dedicated by* Eleazar Albin.

VI



TO THE RIGHT HONORABLE
Henrietta Somersett Counteſs of Suffolk
this plate is humbly Dedicated by Eleazar Albin.

E. Albin. del.
H: Teraſson, Sculp. London, 1713

THE

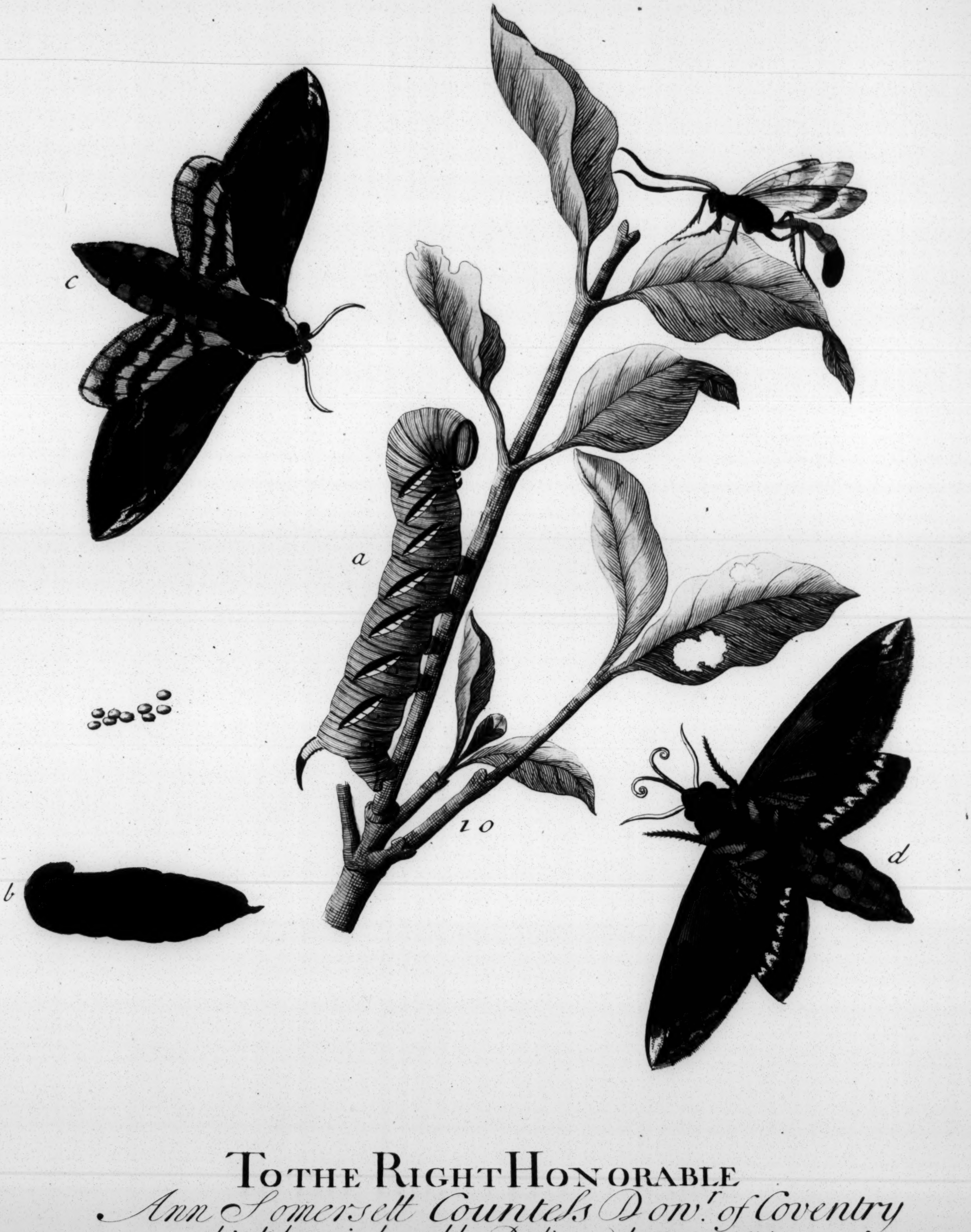
DESCRIPTION *of the Sixth* PLATE.

THE CATERPILLER is yellowiſh, marked obliquely with Orange-Colour Streaks on the *Back*, which pointing forwards toward the *Belly*, are of a pale Yellow, and then grow darker in Shade, going backwards till it comes to a Purple, then Orange, *&c.* repeated, and ſo on for ſix or ſeven Courſes, the laſt of which ends with an Orange-colour Shagreen *Tail.* His *Feet* and Circle of his *Face* are black, with Spots of the ſame on the Joints of his *Body.* It was taken about the Middle of *July* on the *Jeſſamine* full fed, and went into the Ground the next Day, and changed into a *Chryſalis* of a dark brown red Colour. The *Moth* came forth at the latter End of *October*. There being but one of theſe CATERPILLERS, it could not be determined whether that is the uſual Seaſon, moſt others of the *Horn Tail* Kind lying in the Ground all Winter till *May.* The Back and upper Wings of the *Moth c* are of a dark Aſh-colour, ſtreaked with Lines and Marks of Black, deep Oker, and pale Buff-colours, and all over this like the ſprinkling of fine Flower. The *under Wings* are of a deep Yellow, with two ſcollop-edged Streaks of Black acroſs. The *Body* is of the ſame Colours, with a Diviſion of Grey inclining to Blue in the Middle, with ſix Rings of Black. The *Breaſt*, *Belly*, *upper* and *under Wings* of the under Side of the *Moth d*, are of a browniſh Yellow, ſhaded with a dark brown Colour, as it is expreſs'd in the Copper-Plate. Theſe CATERPILLERS are very rare to be found, neither have I found them deſcribed by any *Author*.

THE

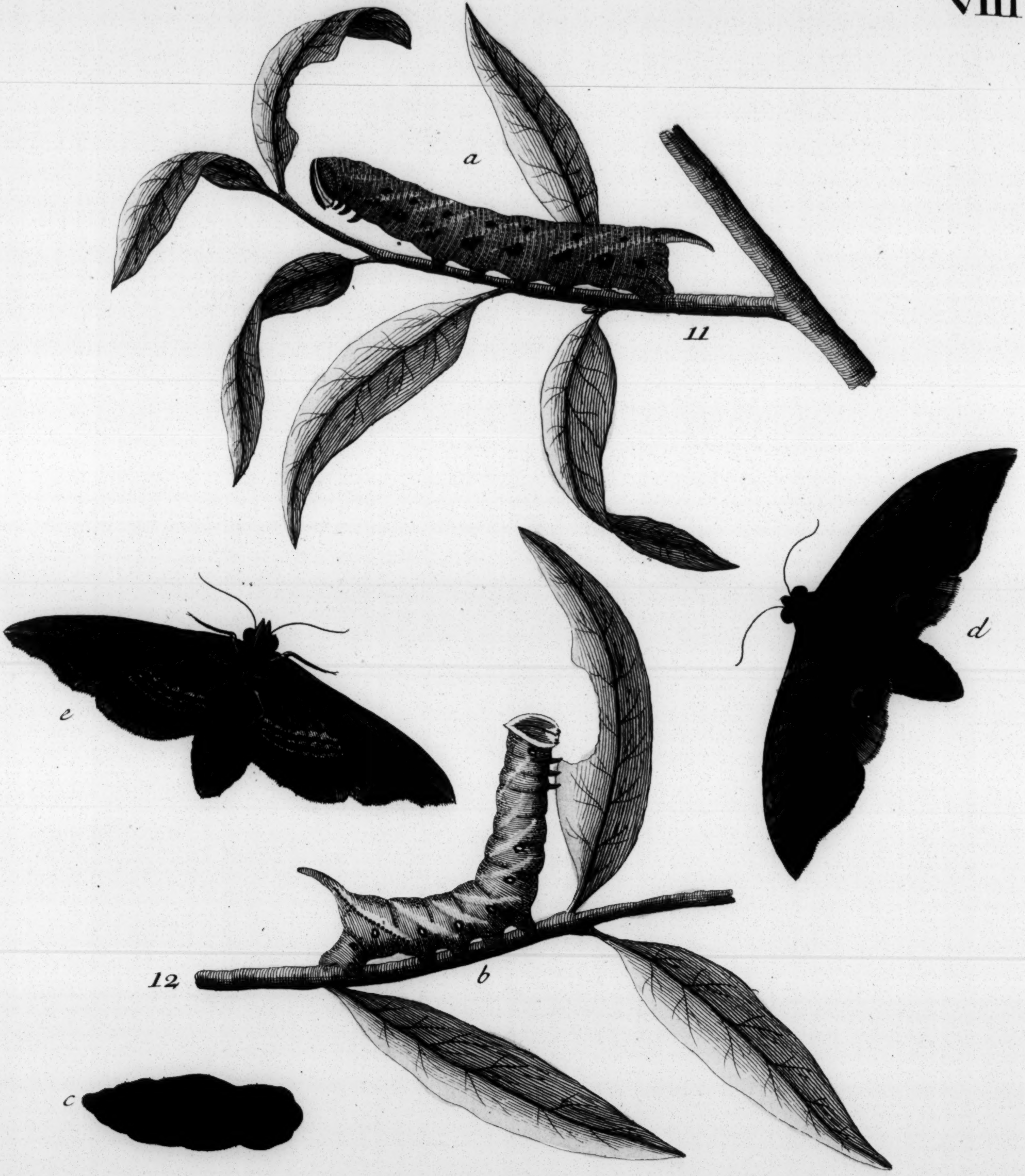
DESCRIPTION *of the Seventh* PLATE.

THIS CATERPILLER is of a yellowiſh Green, the out Circle of the Face of a deep Purple: He had ſeven long pointed Stripes of Purple and White on his Sides obliquely thwarting each Joint, with a Spot of deep Orange under each: The Horn on his Tail is Yellow, tipt with Black. It was found the 4*th* of *Auguſt* on the *Lilac*, very large (they alſo feed on *Privet*, *Holly*, and *Phillyrea*;) it went into the Ground the 8*th* of *Auguſt*, and in five Days changed into a *Chryſalis*, having firſt changed its Skin, which I have obſerved them to do four times in their Courſe from the Egg to the *Chryſalis*. It remained in that State all Winter till the 26*th* of *June*, at which time came forth the Moth expreſſed at *c* and *d*, commonly called the *Privet Hawk-moth.* The upper Wings are of a light Brown with dark Shades, having a Croſs and ſeveral Lines of Black in each. The Body was of a light Brown, marked on each Side with Roſe-colour and Black alternately. The under Wings are of a pale Roſe-colour, with croſs Stripes of Black. The Eggs are of a pale green Colour; they hatch in a few Days after they are laid. I had one that laid about ſixty Eggs, which came all to Perfection. From one of theſe CATERPILLERS taken in the Fields was produced a very large *Ichneumon*, the Body and Tip of the Tail were Black, the Legs and other Parts of a deep Yellow, the Wings and Horns tipped with a Shade of Black. We eaſily find theſe and moſt other large CATERPILLERS by ſeeing their Dung under the Tree or Buſh on which they feed. See *Ray's Hiſt. Inſect. p.* 144. *n.* 1. *Moufet*, *p*. 91. *n*. 5. *p*. 182. *ch*. 2. deſcribes the CATERPILLER; ſo doth Mr. *Ray*, *p*. 145.



TO THE RIGHT HONORABLE
Ann Somersett Countess Dow.r of Coventry
this plate is humbly Dedicated by Eleazar Albin.

E. Albin del. *H. Terasson Sculp. London 1714.*



TO THE HONORABLE
Mary Somersett now Mrs Grevile
this plate is humbly Dedicated by Eleazar Albin.

E. Albin del *H: Terasson. Sculp. London. 1713.*

THE

DESCRIPTION *of the Eighth* PLATE.

THE CATERPILLER *a* is of a yellowiſh Green, with oblique yellow Stripes on his Sides, ſpotted with a double Row of crimſon Spots; the *Holders* and *Feet* of the ſame Colour of the Spots, the *Horn* in his *Tail* blueiſh. It was taken the 23d of *Auguſt* on the *Dutch Willow*, in the Marſhes near *Rotherhith:* I fed them till the 7th of *September*, at which time ſome of them went into the Earth which I had purpoſely put at the Bottom of the Box in which I kept them, and changed into a *Chryſalis* expreſſed at *c*. (Some of theſe ſpotted CATERPILLERS that were taken the 21ſt of *Auguſt* 1714, remained alive in the *Chryſalis* till the 4th of *May* 1716.) And Mr. *Derham* hath obſerved, not only thoſe of the *Butterfly* and *Moth* Kind, but many other Tribes alſo, to lye long in their *Chryſalis* State, when kept in Boxes, *&c.* and ſo are deprived of their natural way of Hatching; ſome of which have lain two Years and more before they have broken Priſon and flown abroad, and ſome have in that time been dried up in their *Chryſalides*, and others that have arrived to their mature Inſect State, not being able to make their way out, have periſhed in their Caſes.

The Cauſe of all this is, no doubt, the want of thoſe kindly Impregnations, Humectations, and Nutriment they meet with in the moſt natural Beds they make themſelves in the Earth or open Air, to which the great Author of Nature hath ſo admirably adapted the Bodies of thoſe little Creatures, that no Weather, no not the ſevereſt Froſts, can hurt them. Of this many Examples might be given in almoſt every Tribe; but that of Dr. *Liſter*, in his Note on *Goedart*'s 26th ſhall ſuffice, who ſaith, That *in the Middle of Winter he hath found both Caterpillers and Hexapod. Maggots on the Snow, which were ſo frozen, that they would rattle in a Glaſs like Stones*; *but being thawed and warmed, would creep briskly about, and try to make their Eſcape.*

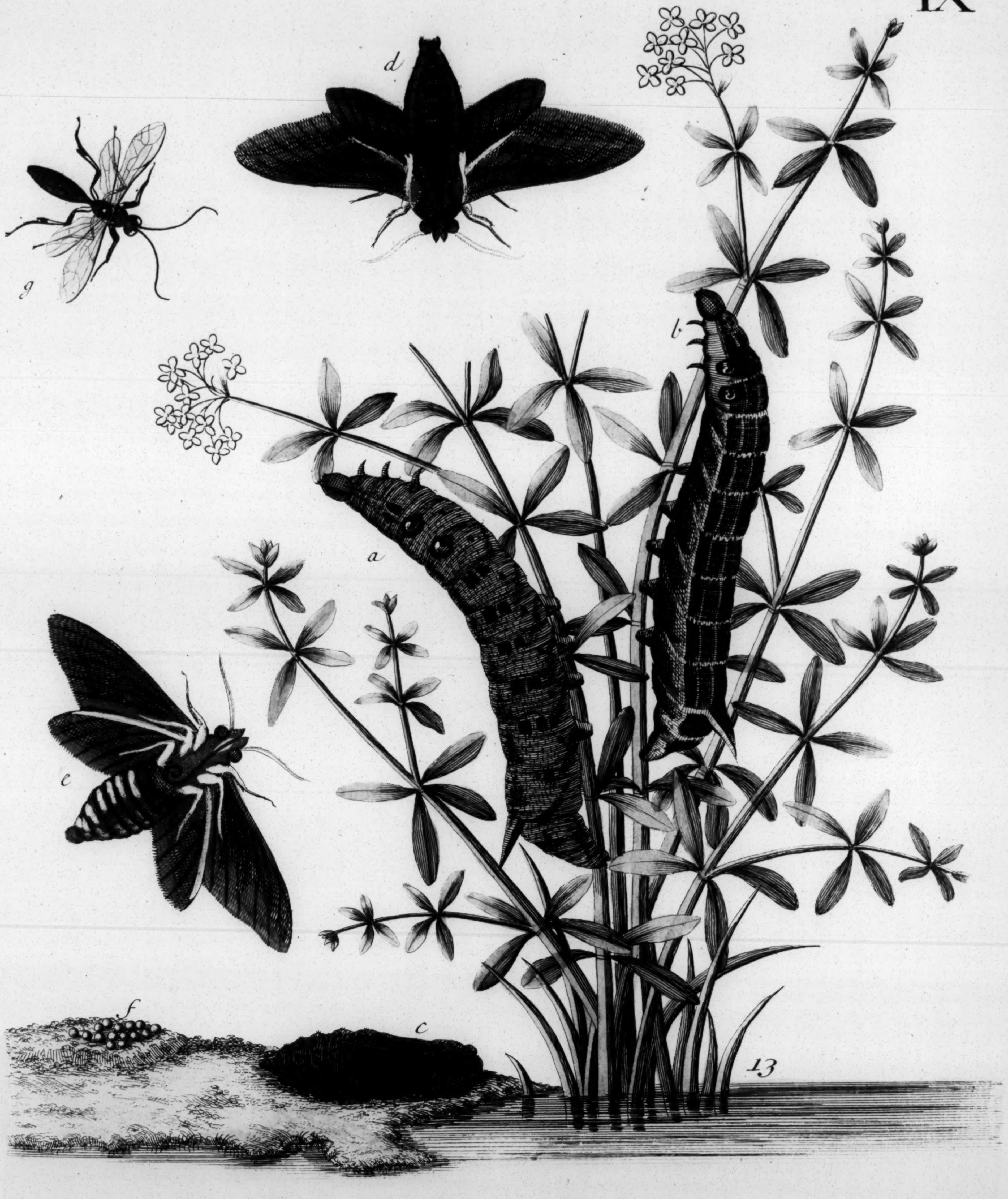
The CATERPILLER *b* is of a blueiſh green Colour with yellow Stripes, except that next his *Tail*, which was white, edged with a ſmall Row of black Spots, it had a ſmall crimſon Circle on each Joint: His *Feet*, *Holders*, and *Circle* of the *Face* were of the ſame Colour as the *Body*. It was taken the 16th of *July* on the *Willow-Tree*, on which it fed till the 27th of the ſame Month, at which time ſome of them went into the Earth, and changed into a *Chryſalis*, and the 5th Day of *May* the Year following came forth a moſt beautiful *Moth*, with Eyes in its under Wings; it is commonly called the *Eyed Hawk-Moth*. One of theſe CATERPILLERS, before its time of Change, had ſeveral Maggots come out of its Sides, which ſpun themſelves Caſes of a brown ſilky Subſtance, and the Summer following produced ſmall *Ichneumon Flies*: The CATERPILLER lived ſix Days after the Eruption of the Maggots without eating. See *Liſter's Goedart*, *n.* 24. *Merian*, *Vol.* 2. *Chap.* 37. *Ray*, *pag.* 148. *n.* 2. *Mouſet*, *p.* 91. *n.* 6.

THE

DESCRIPTION *of the Ninth* PLATE.

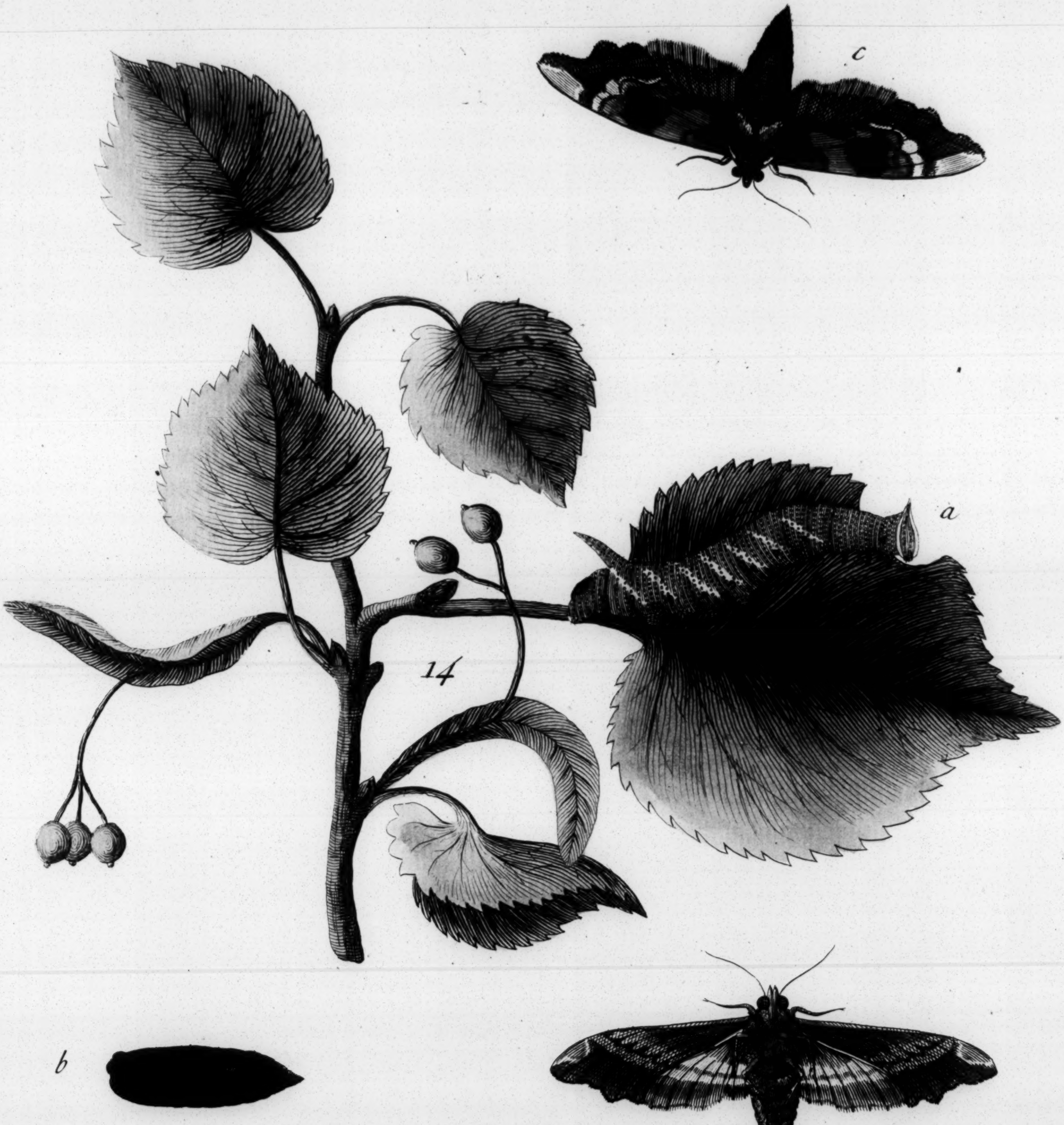
THE CATERPILLER *a* is greeniſh, ſpotted with Black, having two Spots like Eyes on each ſide the Body near the Head; the Horn on the *Tail* was tipt with black: when he is diſtubred, or has done Feeding, he draws in his Head like a Tortoiſe.

The CATERPILLER *b* is of a dark Brown, with Rings and Streaks of a lighter Colour, the *Horn* on his *Tail* tipt with Yellow, in every thing elſe like the former. They were found the *26th* of *June* on the *white Lady's Bedſtraw* in the Marſhes, on which I fed them till the *7th* of *July*, at which time ſome of them ſpun themſelves up in the Leaves of the *Bedſtraw*, and changed into a *Chryſalis*, and the 15*th* of *April* following came a moſt beautiful *Moth* of au Olive-green and Roſe Colour, prettily intermixed on both Sides. One of theſe CATERPILLERS being fly-blow'd the Spring following, came forth an *Ichneumon*, expreſſed at *g*, whoſe Body was Black aud ſpotted with reddiſh Brown. I obſerved ſomething in this CATERPILLER very remarkable, *viz.* his Dexterity in Swimming; for commonly Feeding in or near the Water, if at any time he happens to fall in, he turns himſelf on his Back, and ſwims with his Head and Tail turned together till he gets hold on ſome Part of the Plant, by which he helps himſelf up again. The CATERPILLER *b* I take to be *Goedart*'s 26th, which he calls *the Elephant.* See alſo *Ray's Hiſt. Inſects*, *p.* 145. *n.* 2.



To THE MOST NOBLE
Mary Dutcheſs of Ormond
this plate is humbly dedicated by Eleazar Albin.

E. Albin del. *H: Seraſson, Sculp, London*



TO THE RIGHT HONORABLE
Charlotte Herbert Vicounteſs Windſor
this plate is humbly Dedicated by Eleazar Albin.

E Albin del. *H. Fergſson Sculp. London, 1713,*

THE

DESCRIPTION *of the Tenth* PLATE.

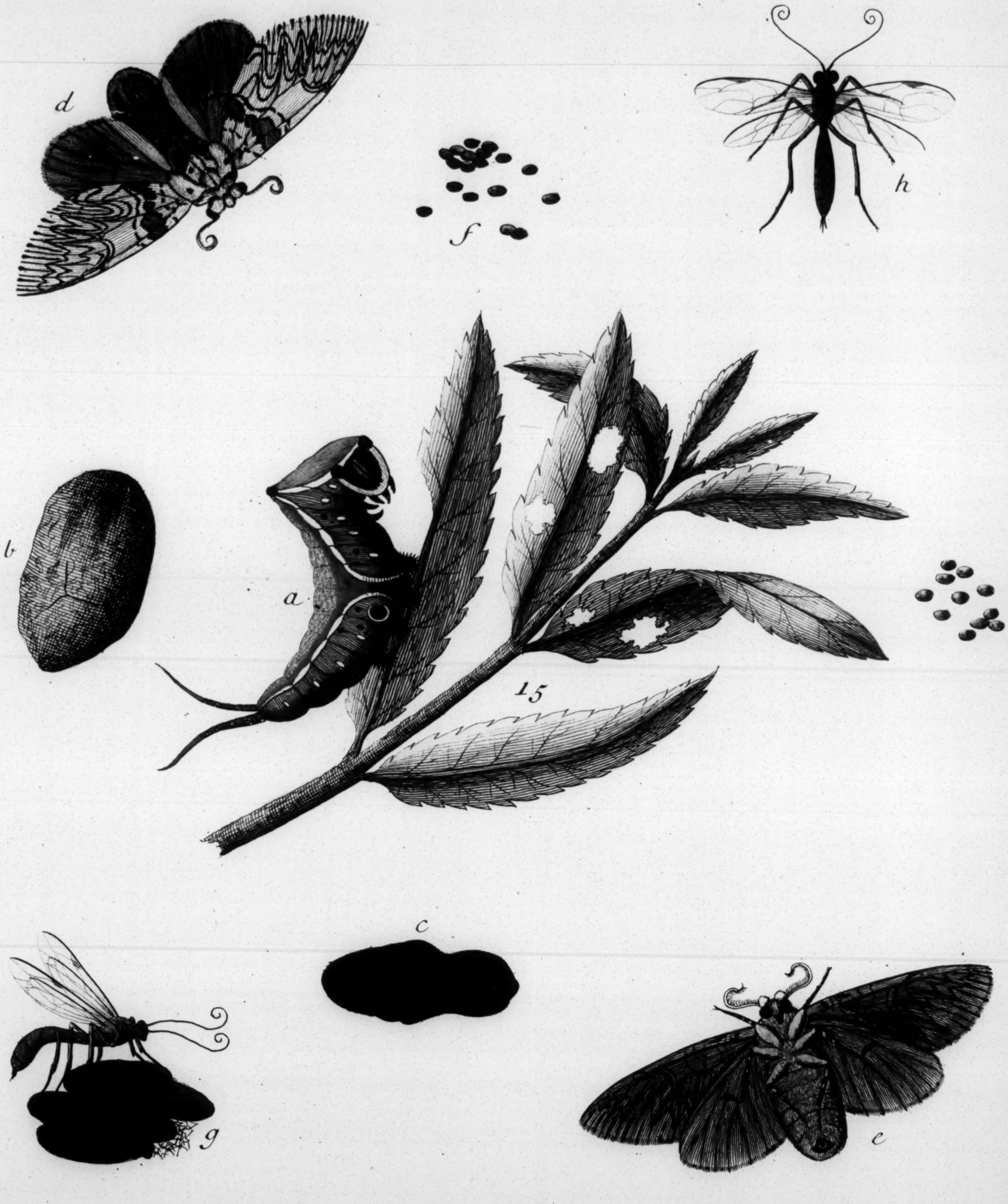
THIS CATERPILLER is of a blueiſh Green, full of white riſing Specks: It has yellow Stripes on his Sides, the hindermoſt of which extending to the under Part of the *Horn* on its *Tail*, ends there in Orange-colour, having a Circle of the ſame Colour juſt below it. (I have likewiſe found ſome of them with two Rows of crimſon Spots on their Sides, and of a yellowiſh green Colour like the CATERPILLER *a* in Plate the 8*th*.) This was taken the 17*th* of *July* on the *Lime-tree*, on which I fed it ſeveral Days. Before it changed into a *Chryſalis*, it turned purpleiſh on its *Back*, and the *Belly* pale Liver-colour; the *Horn* on his *Tail* of a deep Blue, the Orange-colour and white Specks remaining very pale. It went into the Earth the 22*d* Day of *July*, and changed into an *Aurelia* or *Chryſalis*, and remained in that State till the 15*th* of *April*, the Year following, then came forth a beautiful ſcolop'd-wing'd *Moth*, having a curious Mixture of Olive green and Peach-colours in his Body and Wings: Their Eggs are of an oval Shape, and green Colour. I never found theſe CATERPILLERS ſo numerous, as to hurt the Trees. This CATERPILLER ſeems to be more like *Goedart*'s 25*th*, than that in *Tab*. 7: He ſaith the *Horn* in its *Tail* is poiſonous, and that it defends itſelf therewith as with a Sting: I have obſerved ſeveral of theſe Tribes, and others that have not theſe Horns or Bunches, to ſhake or turn themſelves when any *Fly* or *Ichneumon* ſettles on them. See *Merian*, *Vol*. 2. *chap*. 24.

THE

DESCRIPTION *of the Eleventh* PLATE.

THIS CATERPILLAR hath the *Belly* and *Sides* of a yellowiſh Green, with a ſmall white Spot on each Joint; the *Back* is of a blueiſh Green ſpecked with White, and is parted from the yellow Green by a white Streak continued from the black Spots (repreſenting Eyes) to the purple Gibboſity on the *Back*, from thence paſſing obliquely down the Sides to the firſt pair of Holders, where it is interrupted by a deep Purple, and riſes again about the ſecond Holders, and ends at the forked Tail. From the purple Gibboſity on the *Back* and purple Interruption on the *Side*, a Shade of Purple is continued all along the upper Part of this white Streak. It has a deep purple Streak on each Side the *Belly*. There are ſometimes white Circles and purple Spots on their *Sides*, which ſeem to be accidental, for in all I have ſeen they have varied. The out Circle of the *Face* is of a bright Yellow, the ſecond of a deep Roſe colour, the third Black, and the middle of a Peach-colour. His *Head* (like that of a Tortoiſe) was put forth and drawn in at pleaſure. The *Fore-feet* were of an Aſh-colour, as was alſo the *forked Tail*, and ſpeckled with Black. When it is diſturbed, it thruſts out of its Fork two ſcarlet Tips or Points, in an angry manner, as a Defence, but I could not perceive they were hurtful; having ſeveral times applied my Hand to them, I found them ſoft, and the CATERPILLAR protrudes or retracts them as he pleaſes with great Facility. Theſe CATERPILLARS are found on the *Willow* and *Poplar* Trees from the latter end of *June* to the middle of *Auguſt*. In four or five Days after I had taken them, they made themſelves, by gnawing the Wood of the Box into ſmall Bits like Saw-duſt, a hard Caſe, working it with a glutinous Matter which their Bodies afford, as it is expreſſed at *b*, in which it changed into a *Chryſalis*, marked *e*. The *Moth* came forth in *May*; *d* repreſents the upper, and *e* the under Sides of it, being of an Aſh-colour, ſtriped and ſpotted with Shades of Black. The *Eggs*, marked *f*, are of a pale Liver-colour, their under Side flat, and the upper Side riſing in a conick Figure. I obſerving ſeveral of theſe CATERPILLARS to have Eggs or Fly-blows ſticking on them, I plucked them off from ſome, and left them on others, to ſee the Event: The firſt produced *Moths*, the other *Maggots*, which ſtick faſt to the CATERPILLARS by their Tails, which are in ſhining Caſes about one fifth part of their Length. They pierce his *Body* with their *Proboſcis*, which is ſmall and ſharp, thereby ſucking their Nutriment from him. I plucked ſome of their *Proboſcis* out of him, they ſtill remaining faſt by their Tails in the Caſes, and they after ſome time penetrated him as before. Theſe *Maggots* made themſelves Caſes of an earthy Colour, expreſſed at *g*, and in *May* the Year following produced the *Ichneumon* expreſſed at *h*, being of a light brown Colour. See *Liſter's Goedart*, *n*. 20. *Moufet*, *p*. 183. who calls the CATERPILLAR *Eruca Vinula*. *i. e.* the *Beau*; ſo doth Mr. *Ray* from him, *pag*. 153, where both the *Moth* and *Caterpillar* are well deſcribed.

XI

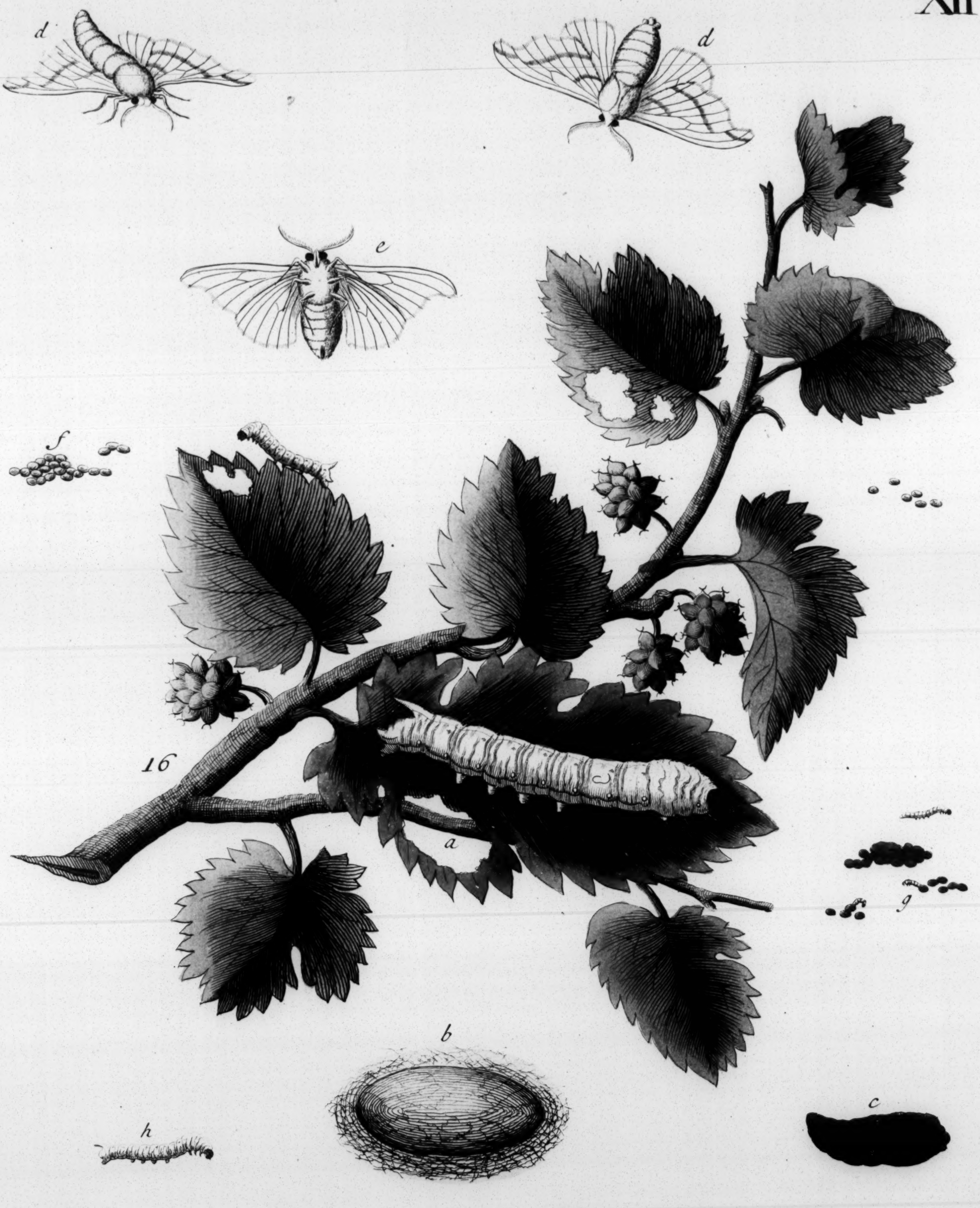


TO THE MOST NOBLE

Mary Capell Dutcheſs Dow^{r}. of Beaufort

this plate is humbly Dedicated by Eleazar Albin.

E. Albin delin. *H. Teraſson, Sculp.* [illegible]



TO THE MOST NOBLE
Mary Dutcheſs Dow^{r}. of Bedford
this plate is humbly Dedicated by Eleazar Albin.

E. Albin del. H: Terasson Sculp: London:

THE DESCRIPTION *of the Twelfth* PLATE.

THE CATERPILLAR (commonly known by the Name of the *Silk-worm*) is of a pale Cream-colour inclining to White, with ſmall dark Circles on each Joint, and two half Circles on his Back. They are hatcht from Eggs of the preceding Year in *May*, and being put on convenient Boards, are placed in an airy and temperate Room, and fed twice a Day with freſh *Mulberry* Leaves. *N. B.* If the *Mulberry* Leaves are not put forth, you may feed them at firſt on *Lettice* or *Succory* Leaves. They muſt be kept very clean and dry; ſome rub the Boards on which they lay them with *Wormwood*, and ſprinkle it with *Wine*, and then dry them well before they put them on again. Notwithſtanding this Care, they are ſubject to ſeveral Diſeaſes, which often obliges ſuch as keep them to remove them for Change of Air, and ſometimes to perfume the Room with Incenſe, Benjamin, and Vinegar. They are to be defended alſo from *Cats*, *Birds*, *Ants*, and *Flies*; they ſuffer likewiſe by *Lightning*, *Thunder*, or any harſh Sound. They feed about 40 Days, during which time they change their *Skin* four times, not eating for ſome time before each Change. When their time of Spinning draws nigh, which is known by their being tranſparent and reſtleſs, they are put into little Coffins of Paper, rouled up like a Wafer, and pinned up againſt a Wall, or Hangings of a Room. *N. B.* In *Spain* and *Naples* they put Branches of *Vines* and *Birch-Trees* dried for them to ſpin up in. After its Change into a *Chryſalis*, it lies about 15 Days before the *Moth* comes out, which is repreſented in the Copper-plate at *d e*, being of the ſame Colour with the CATERPILLAR, the *Male* having a leſſer Body and broader *Horns* than the *Female*, as moſt of the *Moths* of the *Male kind* have. After they have purged themſelves, they couple and lay *Eggs*, every *Female* laying near 160, which are firſt Yellow, and after of a Liver colour. Mr. *Derham* makes mention, in his *Phyſico-Theolgy*, pag. 388, of an ingenious *Gentlewoman* who had the Curioſity to meaſure the *Silk* that compleated one of their *Caſes*, which was found to be above 300 Yards, and weighed but 2 Grains. If you have not time to wind them off preſently after the *Caſes* are compleated, put them in an Oven after the Bread is drawn, letting them ſtand ſome time: This kills the *Moth*, which would elſe eat her way out, and ſpoil the *Silk*; you may then keep them as long as you pleaſe. See *Philoſ. Confer. of the Virtuoſ. of France*, *Vol.* 2. *p.* 402. *Goedart*, *p.* 1. *Tab.* 42. *Merian*, *Vol.* 1. *p.* 1. *Malpighi de Bombyce.*

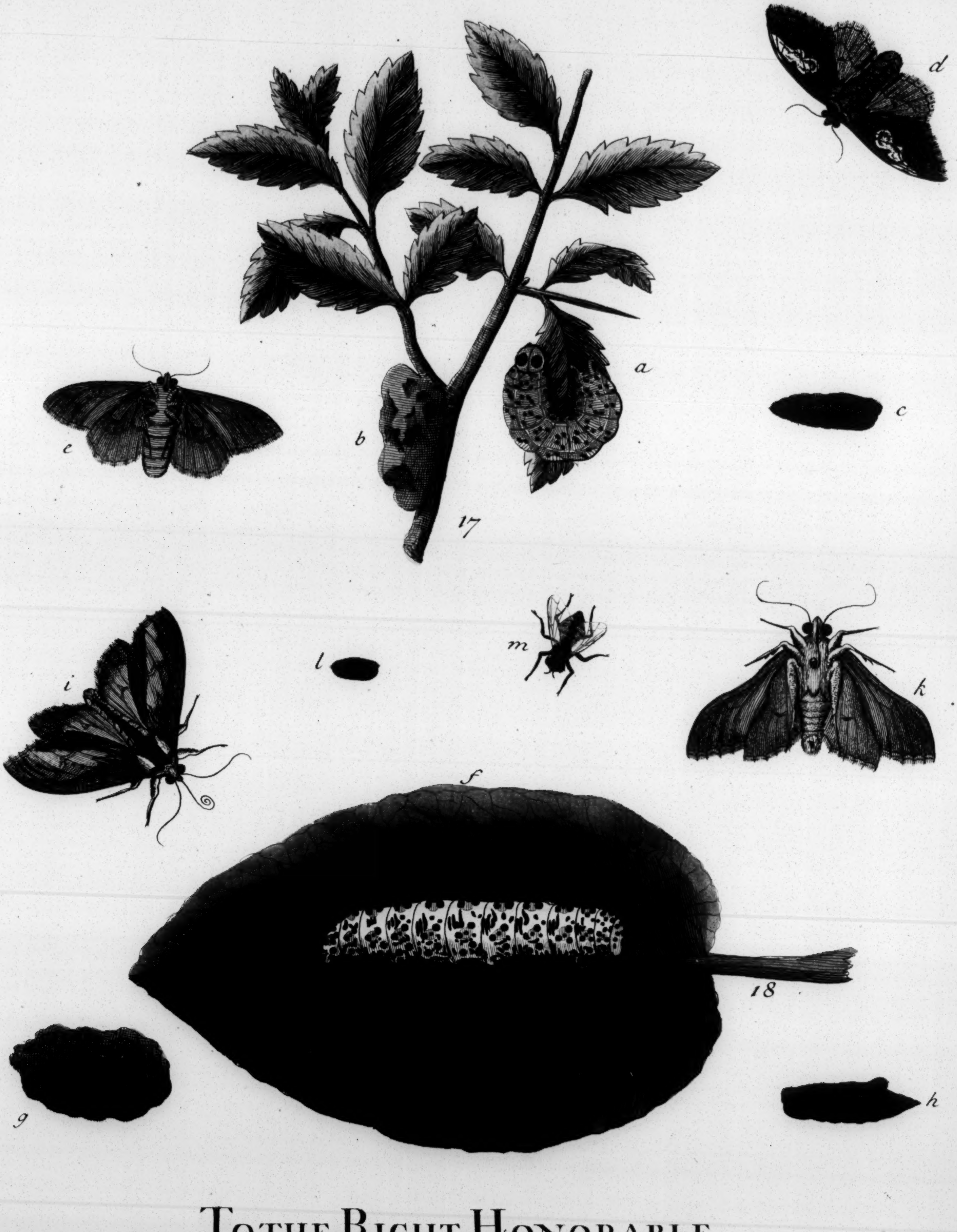
THE

DESCRIPTION *of the Thirteenth* PLATE.

THE CATERPILLAR *a* is of a pale Blue, having 3 ſquare Spots of Yellow on each *Joint*, and on each of them 4 ſmall black Spots; it hath 2 large Spots of Black on the *Head*, repreſenting *Eyes*. It was taken the 22d of *May* on the *Black Thorn*; it likewiſe feeds on the *White Thorn*, *Bramble*, and *Crabtree*. The 27th of *May* it ſpun itſelf up in a *Caſe b* on a Branch of its Food, in which it changed into a *Chryſalis c*. The 26th of *Auguſt* came forth the *Moth*, the upper ſide *d* Brown and Aſh-colour'd, with a double Spot of a Yellowiſh White like a Figure of Eight in each Upper Wing; the under ſide of the *Moth e* is of a light Hair Colour.

The CATERPILLAR *f* is White, and ſpotted with Black and Yellow all over the *Body*, *Feet* and *Holders*; the *Head* Yellow ſpotted with Black. It was taken on the 20th of *May* feeding on the *Water Betony*; it alſo feeds on the *Mullein*. The 30th of *May* it went into the Earth, which I had provided at the bottom of the Box, in which I fed it; and made a hard *Caſe*, expreſſed at *g*, of the Earth and a Webby Matter near a quarter of an Inch thick, to ſecure itſelf from the Injuries of the Weather, *&c*. In this *Caſe* it changed into a *Chryſalis h* of a Tawny red Colour, and at the beginning of *March* following came forth the *Moth i*, of a Buff Colour ſhadowed with dark Brown. Some of theſe CATERPILLARS were Flyblown, each of which produced 5 or 6 dark red *Chryſalides l*, from each of them came the *Fly* expreſt at *m*. See *Ray's Hiſt. Inſects*, *p*. 168. *n*. 25.

XIII.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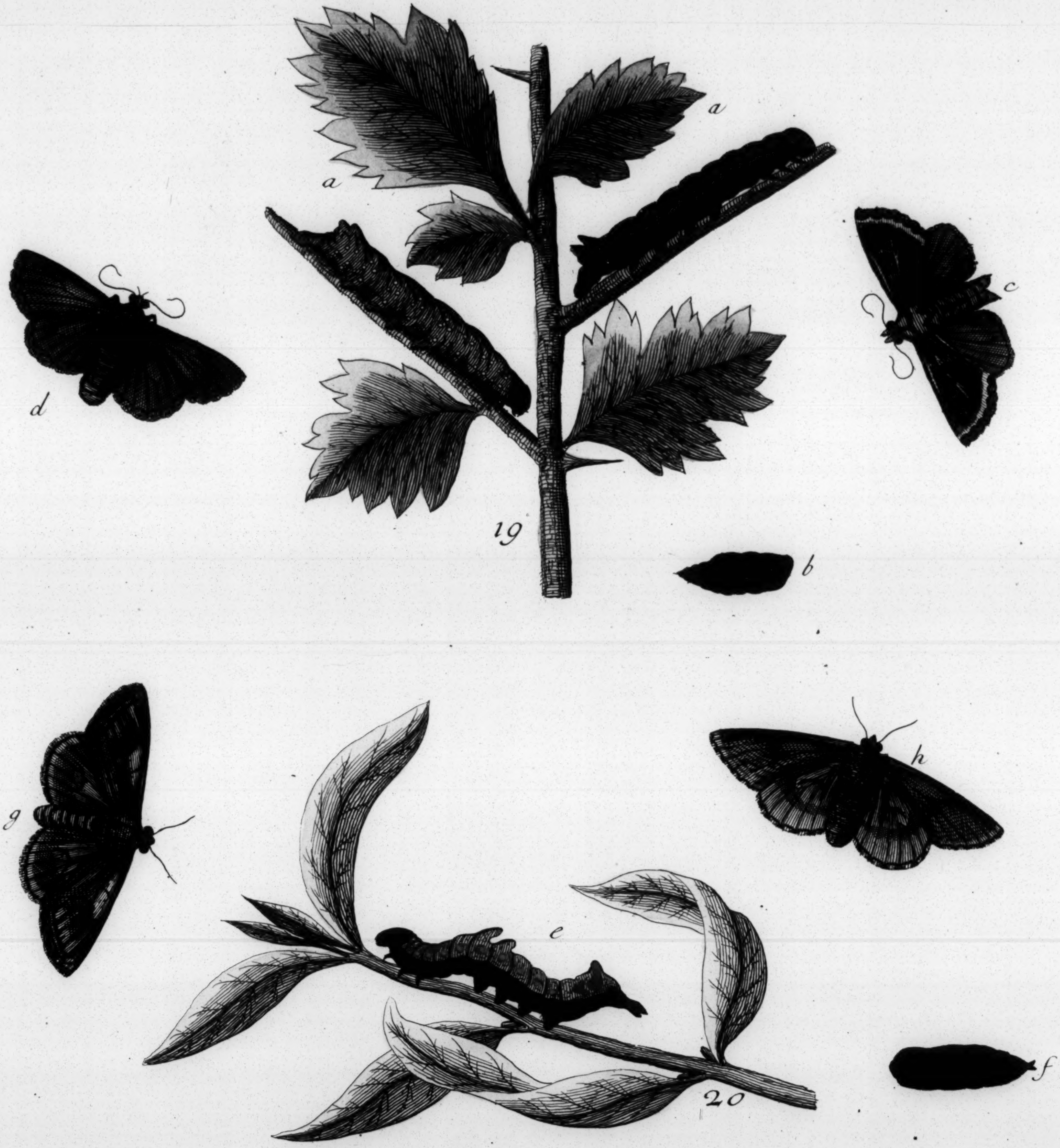
TO THE RIGHT HONORABLE
The Lord Bruce.
this plate is humbly Dedicated by Eleazar Albin

E. Albin del.

H: Teraſson Sculp. London. 1714.

XIV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TO THE MOST NOBLE
Henry Duke of Beaufort
this plate is humbly Dedicated by Eleazar Albin.

E. Albin del. *H. Fergusson Sculp. London. 17$\frac{13}{14}$.*

THE

DESCRIPTION *of the Fourteenth* PLATE.

THE two CATERPILLARS *aa* are of the ſame Species, altho' of different Colours, the uppermoſt of which was of a reddiſh Colour intermixt with Green and darker Shades, the lowermoſt was Green and Clouded like the former, but without any Red; they were both ſpotted with White Specks, circled with Black all over their Bodies, and had two Riſings or Bunches at the *Tail*. I always found them in the Poſture they are drawn in, cloſe to the Stem, except when feeding. They were taken the 17th of *May* feeding on the *White Thorn*; they alſo feed on the *Black Thorn* and the *Crab-Tree*. The 22d of the ſame Month they went into the Earth in the bottom of the Box, and changed into a *Chryſalis* of a reddiſh Brown Colour expreſſed at *b*, and about the middle of *September* came forth the *Moth c*: the *Upper Wings* were a mixture of reddiſh Brown and Buff Colours and over all Lines of a light Green; the *Under Wings* and *under Side d* were of a pale Ruſſet Colour.

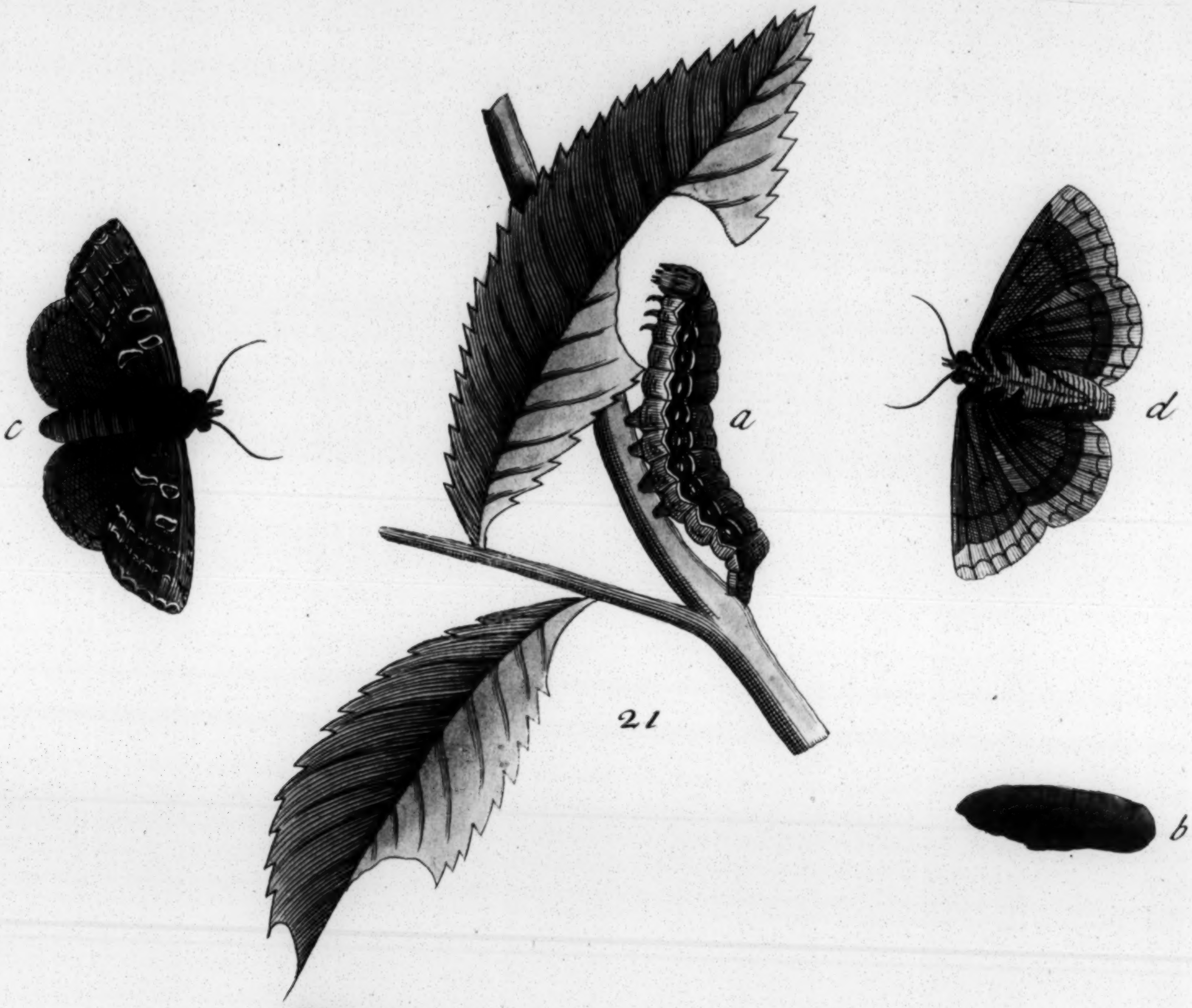
The CATERPILLAR *e* is of a reddiſh Purple Colour, with Blue Spots and ſmall Black Circles on each *Joint*, it had 2 *Riſings* on the middle of its *Back*, and one at the Tail, with 2 large Spots of Orange-Colour below it: It always ſtood in the Poſture figured in the Plate, with its hinder part liſted up from the *Branch*, except when moving or feeding. This CATERPILLAR was taken the 9th of *July* feeding on the *Dutch Willow* in the *Marſhes* near *Rotherhithe*. Before its change the Riſings on the Back and Tail fell in, and the whole Body turned blackiſh: It ſpun itſelf up in the *Leaves*; I had *another* which buried itſelf in the *Earth* in the ſame Box. They both changed into *Chryſalides* as *f* expreſſes, towards the middle of *July*; and the beginning of *Auguſt* came forth the *Moth g* of a light Brown Colour heightned with White, and Streaked with Lines of Black. *Godartius* ſeems to deſcribe the firſt of theſe *n.* 23. and the latter *n.* 22. and calls it *the terrible Eruca*; the Riſings on the Back he ſaith are a Guard to defend himſelf. See *Liſter's Godart n.* 21.

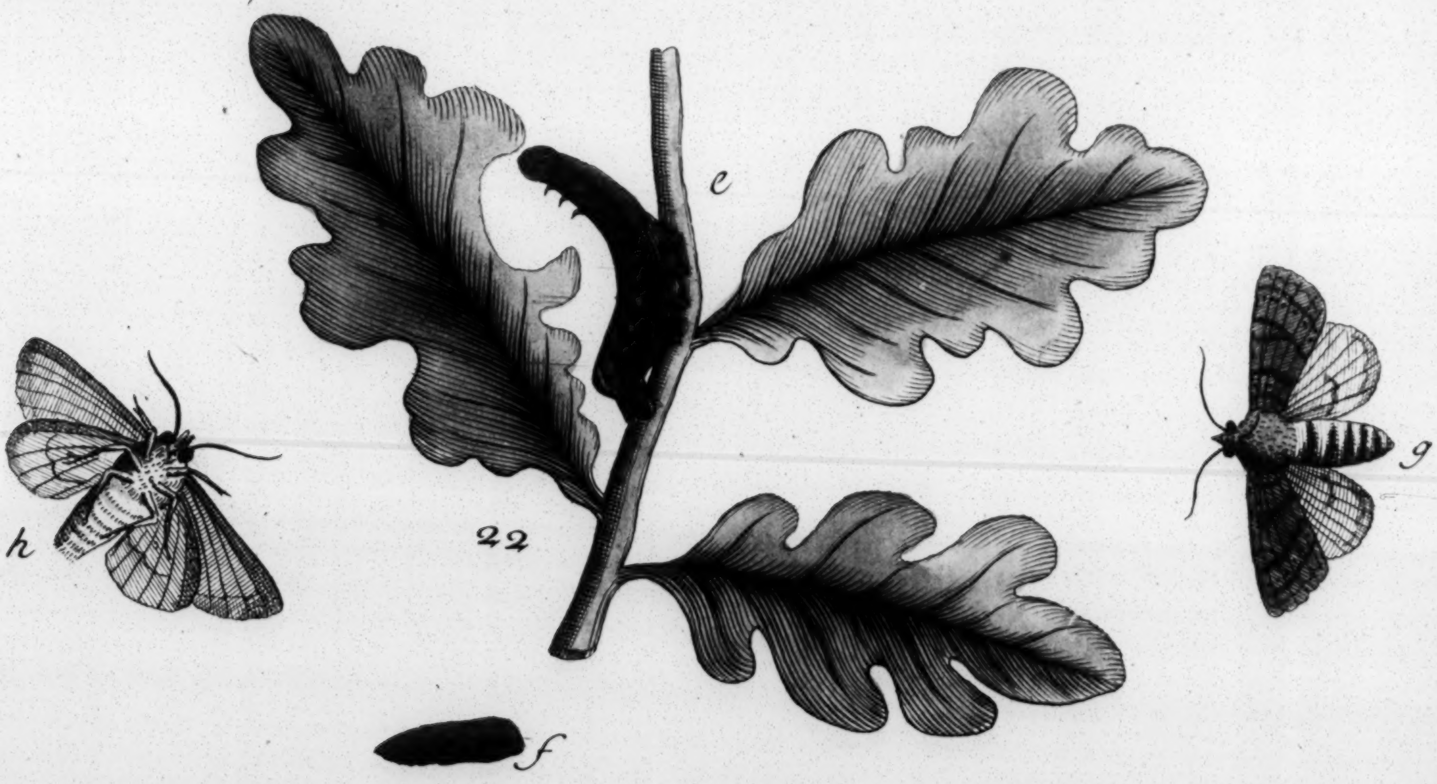
THE

DESCRIPTION *of the Fifteenth* PLATE.

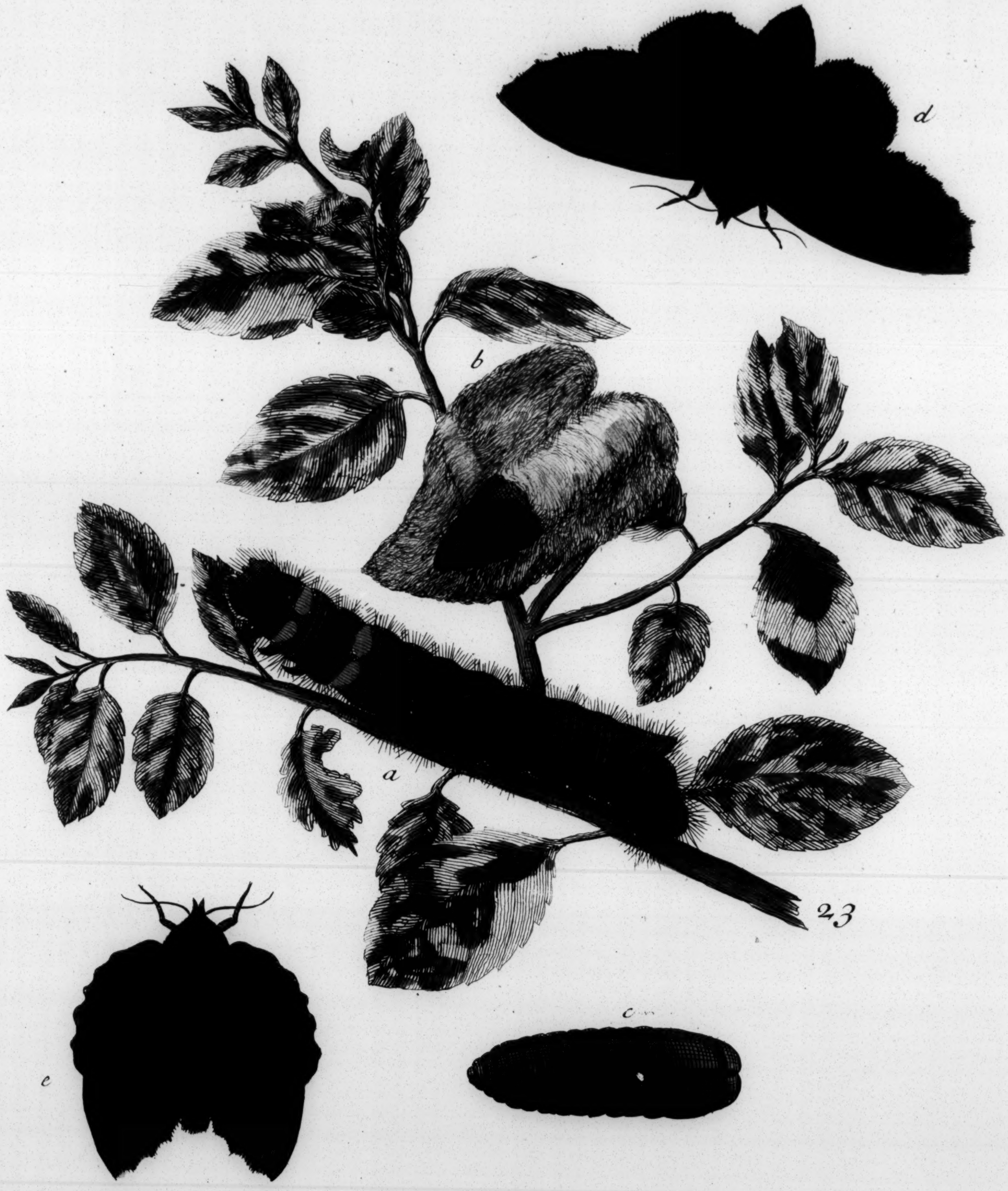
THE CATERPILLAR *a* hath its *Head* and *Back* of a light brown Colour, the *Belly* of a light Hair Colour, parted from the brown by an indented Line of Black, edged with White. It was taken feeding on a *Peach-Tree*, in a Garden at *Hackney*, the 21ſt of *May*; and the 25th of the ſame Month it went into the *Earth in the Box*, and changed into a *Chryſalis b*; and at the latter end of *June* came forth the *Moth* expreſſed at *c*, the *upper ſide* brown, with Lines and Circles of White in the upper Wings, the *under ſide d* of the ſame Colour, with a Border of light Hair Colour, divided in the middle by an Ingrail'd Line of Black. This CATERPILLAR I have rarely found.

The CATERPILLAR *e* is of a deep Tawney, with a Row of *Chevron-like* black Streaks all along the *Back*, the Angles pointing towards the *Tail*, with ſome dark Spots on its *ſides*. It was taken on the *Oak* the 14th of *June* near *Dulwich*; ſome of the ſame have been taken alſo near *Woolwich* in *Kent*, others in *Canewood* near *Hamſtead*. It went into the Earth the 24th of *June*, and changed into a *Chryſalis f*; and about the middle of *Auguſt* came forth a beautiful *Moth*, expreſſed at *g*, the Back and upper Wings of a deep Orange Colour, the *Belly* and under Wings of a Cream Colour, with faint Shades of Orange and Streaks of Roſe Colour.





To the Right Honorable
Thomas Ld. Trevor
Lord Cheif Justice of His Majesties Court of Comõn pleas
this plate is humbly Dedicated by Eleazar Albin.



TO THE MOST NOBLE
Mary Preston Dutcheſs of Powis
this plate is humbly dedicated by Eleazar Albin.

E. Albin del. *H: Terasson Sculp. 1713*

THE

DESCRIPTION *of the Sixteenth* PLATE.

THE CATERPILLAR *a* is of a dark Purple Colour with a mixture of Red and Brown, it hath 4 Blue Spots on its *Back* near the *Head*, it had *Flaps* or *Lappets* on every *Joint*, which makes him appear to have ſo many *Feet*. It was taken on the *Alaternus* about the middle of *May*; it alſo feeds on the *Lauruſtinus*, *Black Thorn*, *White Thorn*, and *Bramble*. On the 28th of *May* it ſpun it ſelf up in the Leaves in a Greyiſh Silkey *Web* as *b* expreſſes, and changed into a *Chryſalis c* almoſt of the Colour of the CATERPILLAR, and on the 21ſt of *July* came forth the *Moth d* of a reddiſh Colour with three Ingrailed Lines of Black acroſs the *Upper Wings*, and two of the ſame in the *Under Wings*; the under ſide of the *Moth* is of the ſame Colour: the young CATERPILLARS live all the Winter. I have fed them on the *Bramble* till the latter end of *April*, and then given them *White Thorn* and *Black Thorn* to feed on, and brought them up till their Change. The *Moth* in its ſitting Poſture is repreſented at *e*, which is particular to this kind of *Moth*.

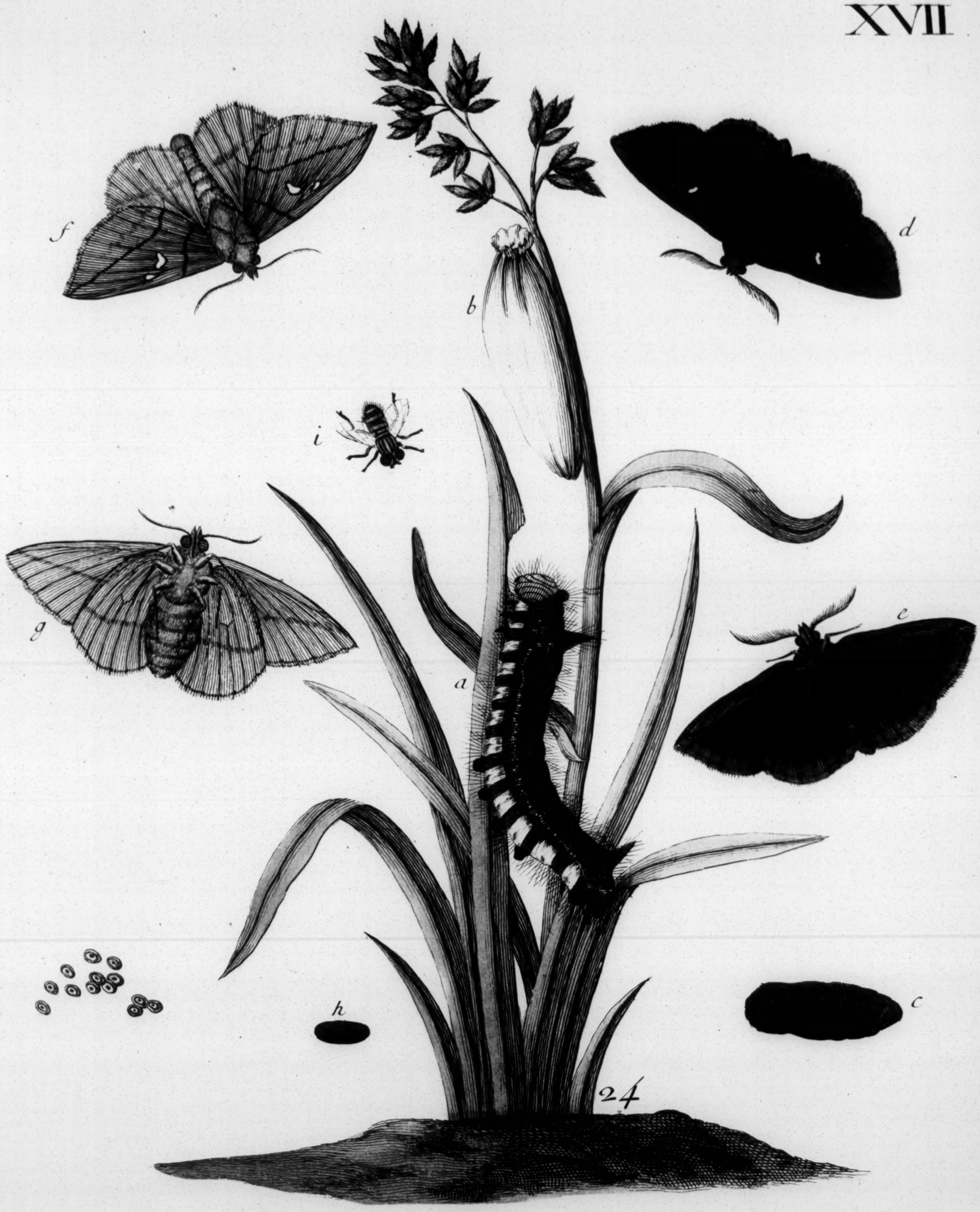
THE

DESCRIPTION *of the Fifteenth* PLATE.

THE CATERPILLAR *a* hath its *Head* and *Back* of a light brown Colour, the *Belly* of a light Hair Colour, parted from the brown by an indented Line of Black, edged with White. It was taken feeding on a *Peach-Tree*, in a Garden at *Hackney*, the 21ſt of *May*; and the 25th of the ſame Month it went into the *Earth in the Box*, and changed into a *Chryſalis b*; and at the latter end of *June* came forth the *Moth* expreſſed at *c*, the *upper ſide* brown, with Lines and Circles of White in the upper Wings, the *under ſide d* of the ſame Colour, with a Border of light Hair Colour, divided in the middle by an Ingrail'd Line of Black. This CATERPILLAR I have rarely found.

The CATERPILLAR *e* is of a deep Tawney, with a Row of *Chevron-like* black Streaks all along the *Back*, the Angles pointing towards the *Tail*, with ſome dark Spots on its *ſides*. It was taken on the *Oak* the 14th of *June* near *Dulwich*; ſome of the ſame have been taken alſo near *Woolwich* in *Kent*, others in *Canewood* near *Hamſtead*. It went into the Earth the 24th of *June*, and changed into a *Chryſalis f*; and about the middle of *Auguſt* came forth a beautiful *Moth*, expreſſed at *g*, the Back and upper Wings of a deep Orange Colour, the *Belly* and under Wings of a Cream Colour, with faint Shades of Orange and Streaks of Roſe Colour.

XVII



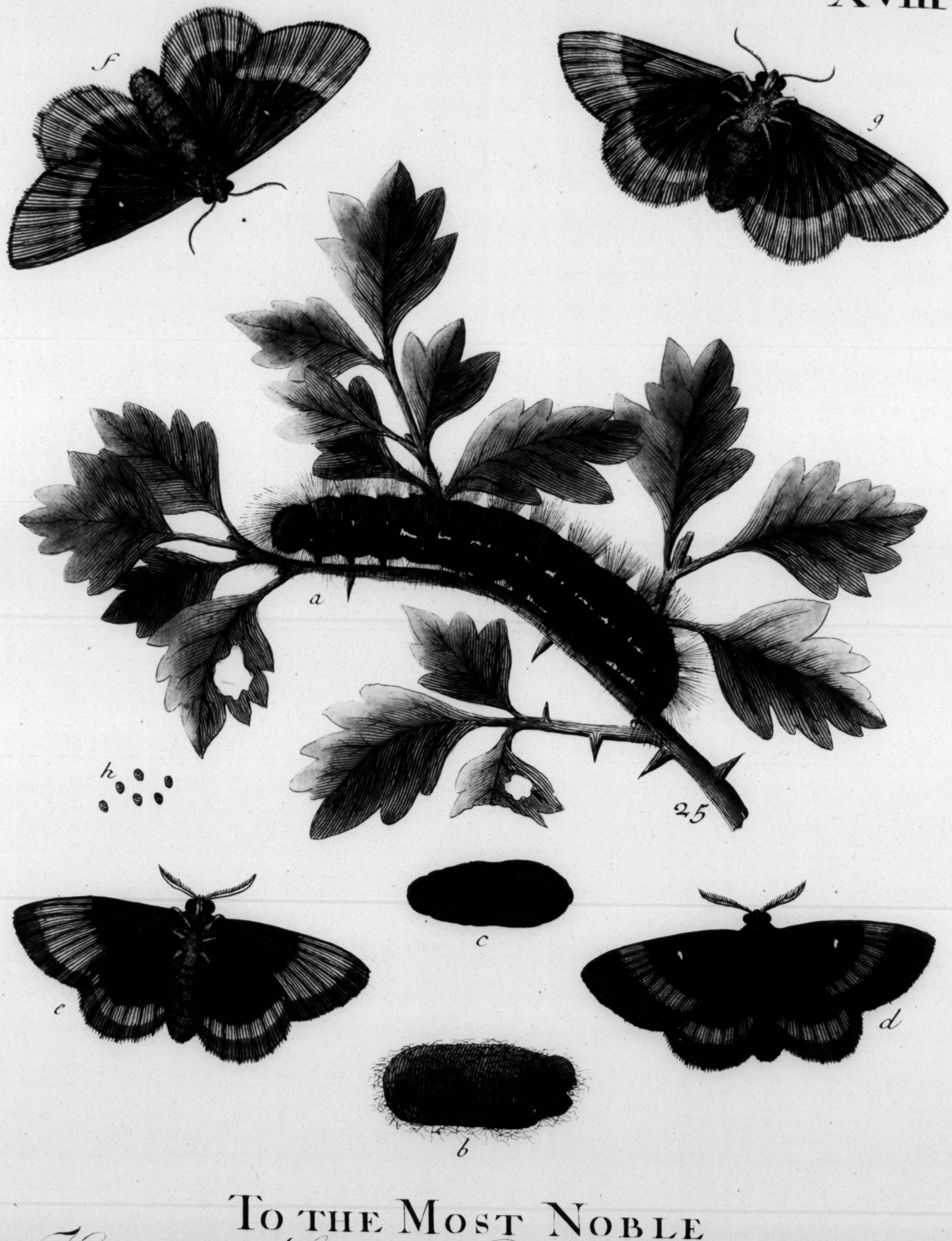
TO THE MOST NOBLE

Mary Sherburn Dutcheſs of Norfolk

this plate is humbly Dedicated by Eleazar Albin.

H. Fergason Sculp. [illegible]

XVIII



TO THE MOST NOBLE
Henrietta Somersett Dutcheſs of Grafton
this plate is humbly Dedicated by Eleazar Albin.

E. Albin del.

H. Terasson, Sculp, London.

THE DESCRIPTION *of the Sixteenth* PLATE.

THE CATERPILLAR *a* is of a dark Purple Colour with a mixture of Red and Brown, it hath 4 Blue Spots on its *Back* near the *Head*, it had *Flaps* or *Lappets* on every *Joint*, which makes him appear to have ſo many *Feet*. It was taken on the *Alaternus* about the middle of *May*; it alſo feeds on the *Lauruſtinus*, *Black Thorn*, *White Thorn*, and *Bramble.* On the 28th of *May* it ſpun it ſelf up in the Leaves in a Greyiſh Silkey *Web* as *b* expreſſes, and changed into a *Chryſalis c* almoſt of the Colour of the CATERPILLAR, and on the 21ſt of *July* came ſorth the *Moth d* of a reddiſh Colour with three Ingrailed Lines of Black acroſs the *Upper Wings*, and two of the ſame in the *Under Wings*; the under ſide of the *Moth* is of the ſame Colour: the young CATERPILLARS live all the Winter. I have fed them on the *Bramble* till the latter end of *April*, and then given them *White Thorn* and *Black Thorn* to feed on, and brought them up till their Change. The *Moth* in its ſitting Poſture is repreſented at *e*, which is particular to this kind of *Moth*.

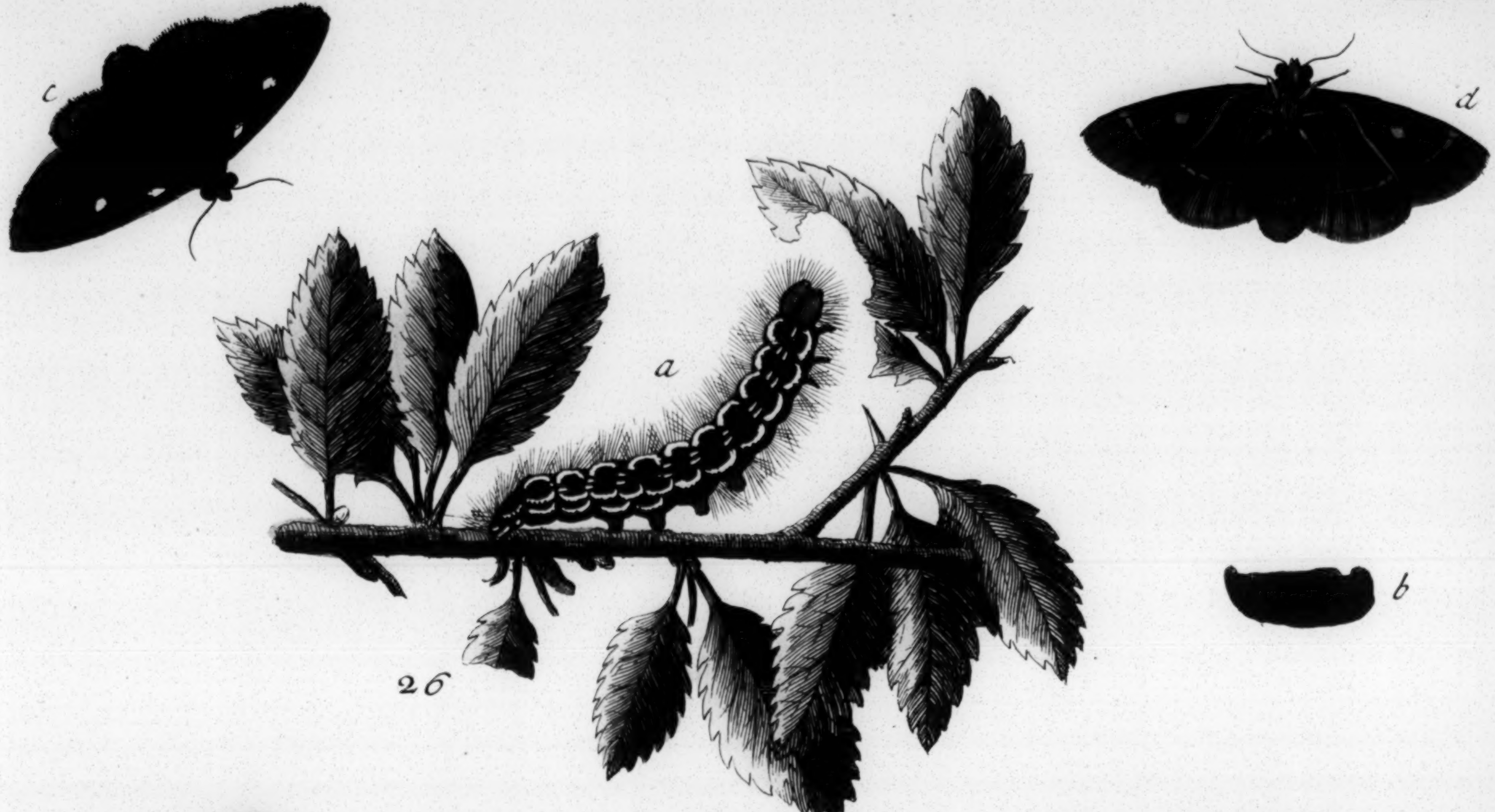
THE

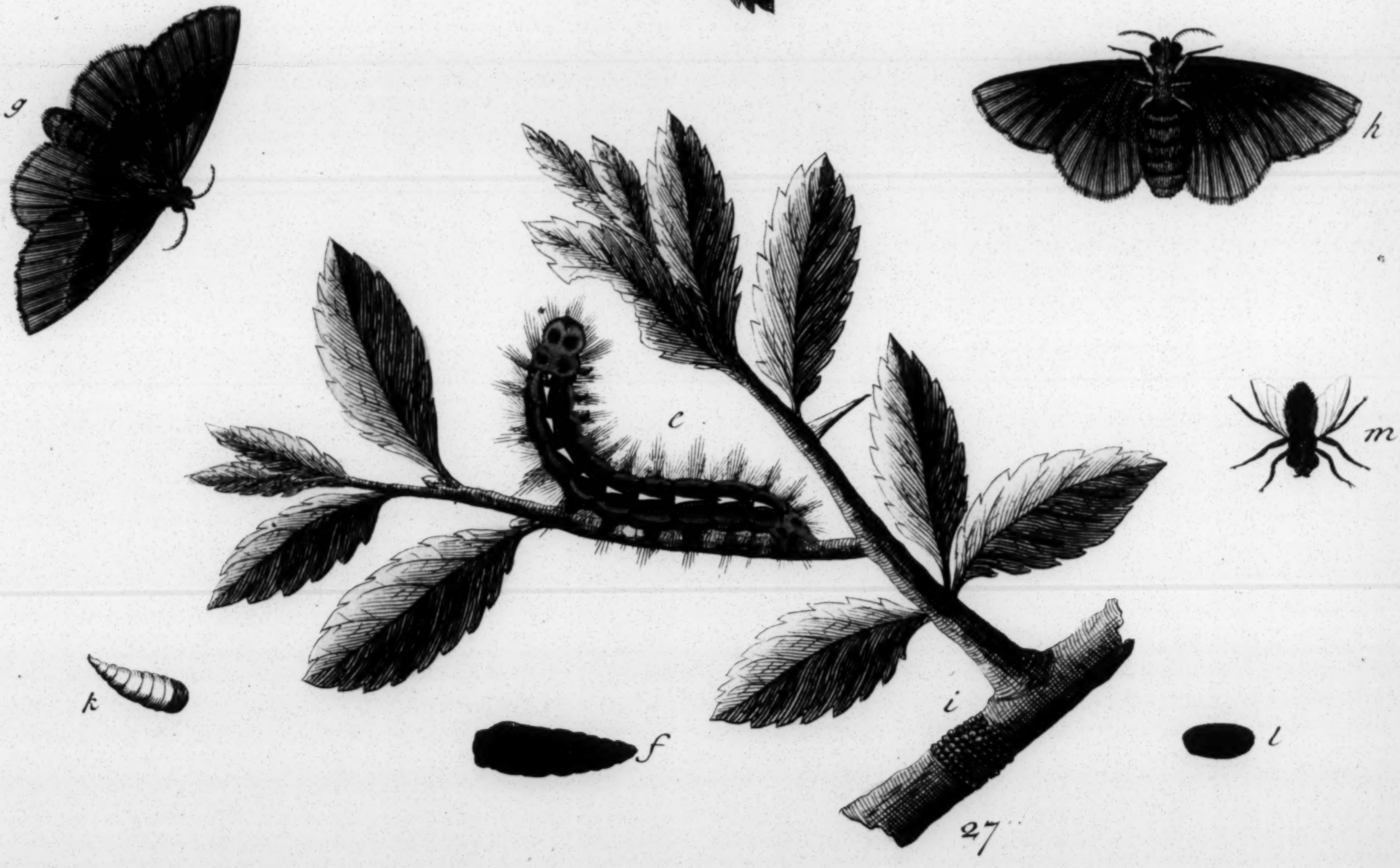
DESCRIPTION *of the* *Nineteenth* PLATE.

THE CATERPILLAR *a* is Black, with two rows of Brown Spots encompaſſed with Yellow on his *Back*, the *Head* is of a Browniſh Aſh Colour; the *Feet* Black, and the *Holders* Red. It was taken on the 17th of *June* on the Black Thorn, and the 12th of *July* it ſpun it ſelf up in the Leaves, a brown hard brittle *Caſe* in ſhape like a *Bird's Egg*, (after the manner of the CATERPILLAR in the Eighteenth Plate,) and changed into a *Chryſalis* expreſſed at *b*, out of which came forth the *Moth c*, the Body and *Upper Wings* of a pale reddiſh Brown, with two White Spots, and a line of the ſame acroſs each Upper *Wing*; the under ſide *d* had the ſame marks, but ſomething paler. Theſe CATERPILLARS are always found in Colonies, the whole Neſt of them feeding together, till they are ready to change; as ſoon as they are hatched from *Eggs* they ſpin a *Web* to ſhelter themſelves from the Weather, and as they grow enlarge it with ſeveral Diviſions; they ſeldom go from the Plant they are firſt hatched on, till they have eaten it quite bare, and want food; when they go abroad to feed, they ordinarily ſpin a Thread from their main Web to guide them home again; this is very particular, and ſeems neceſſary to them; for I cou'd never feed them up without taking the whole Neſt with their Web.

The CATERPILLAR expreſſed at *e* is ſtriped with Blue and Orange Colour on his *ſides*, and a White Stripe down the *Back* reſembling a laced Livery, from whence it's commonly call'd the Lacquey, the *Head* Blue with two Spots in Imitation of *Eyes*, it has ſmall Tufts of Hair on each *Joint*. It was taken the 30th of *May* on the *Black Thorn*, and the 20th of *June* it ſpun it ſelf up in a Yellowiſh Silky Web (from which when torn fell a Yellow Powder like Flower of Brimſtone) and changed into a *Chryſalis f*, and the 25th of *July* came forth the *Moth g* of a Tawney Fleſh Colour, having a Diviſion of one 3d of the middle of the Upper Wings of a darker Colour. The *Moth* lays her *Eggs* in a Spiral Order round the young Twigs of ſuch *Trees* as are proper food for the CATERPILLARS, which are not very nice, for they eat the Leaves of any *Fruit Trees*, *White Thorn*, *Black Thorn*, *Bramble*, *Lawrel*, and ſeveral others; they are Hatched in the Spring, when the young Leaves come forth, and keep together in a Web while young, ſo eaſily deſtroyed, if care be taken then. Some of them were Flyblow'd, and produc'd the *Maggot* expreſſed at *k*, which changed into the *Chryſalis l*, from which came the *Fly m*. See *Godart*, *p.* 1. *Tab.* 10

XIX

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To the Right Honorable.

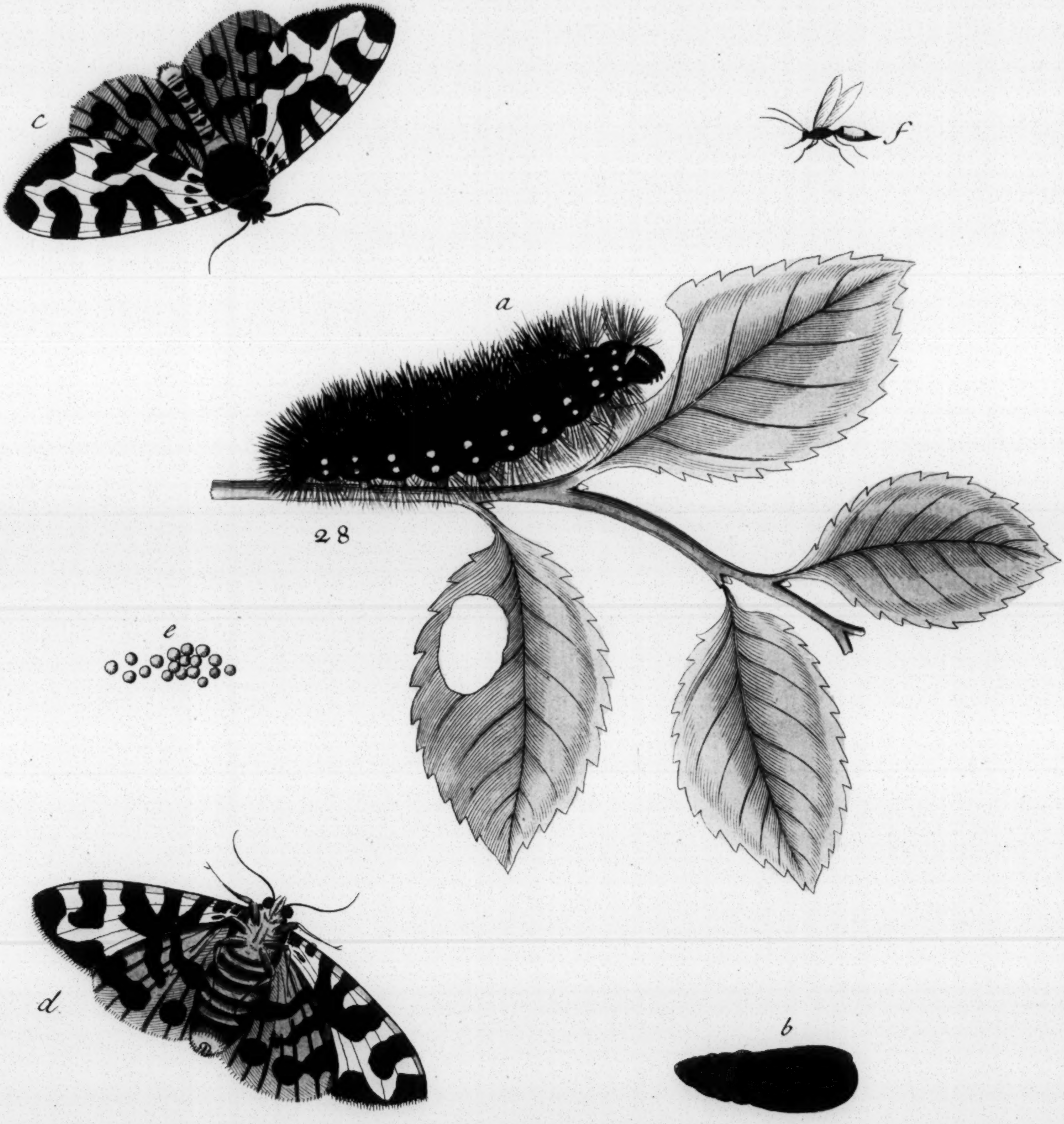
The Dow.^r Lady Gerrard

this plate is humbly Dedicated by Eleazar Albin.

E. Albin del.

H: Terasson. Sculp: London, 1713.

XX



To the Lady Drake Wife of Saml. Trotman Esqr

E. Albin del. *this plate is humbly Dedicated by* Eleazar Albin.

THE

DESCRIPTION *of the Twentieth* PLATE.

THE CATERPILLAR *a* is Black, the Hair on the two *Joints* next the *Head* and on the Sides Orange Colour, and on the Back Black. It hath a Row of ſmall White Spots, reſembling Pearl, on each *Joint*. When any thing diſturbs it, it rowls it ſelf up like a *Hedge-hog*, and lieth in that Poſture while apprehenſive of danger; afterwards haſtens from that place. It was taken in the beginning of *May* feeding on the *Plum-Tree*; they likewiſe feed on the *Currant-Tree*, *Nettles*, *Teaſel*, *Lettice*, *Chickweed* and many other Plants; it ſpun it ſelf up to the ſide of the Box in a thin Grayiſh *Web* the 10th of *June*, and changed into a black *Chryſalis* the 17th of the ſame *Month*, and the 3d of *July* came forth a Beautiful *Moth*, *c*, the *Body* and *Upper Wings* of which are dark Brown, divided by ſeveral broad Streaks of White; the *Belly* and *Under Wings* Red, Spotted with Black, the under ſide of the *Moth d* of the ſame Colour, but paler: The young CATERPILLARS are hatched in Autumn, and live all Winter. I took ſome of them which were Flyblow'd, the *Maggots* eating their way out of their *Sides*, ſpun themſelves *Caſes* of Yellow Silk, and produced the *Ichneumon* expreſſed at *f*. See *Liſter*'s *Godart n.* 99. *Mouſet.* 15. *p.* 93. and the CATERPILLAR his 2d *p.* 186. See alſo *Ray*'s *Hiſt. InſeΩs p.* 151. *n.* 3. and *p.* 152. *n.* 7. alſo *Marian*, *Vol.* 1. *ch.* 5.

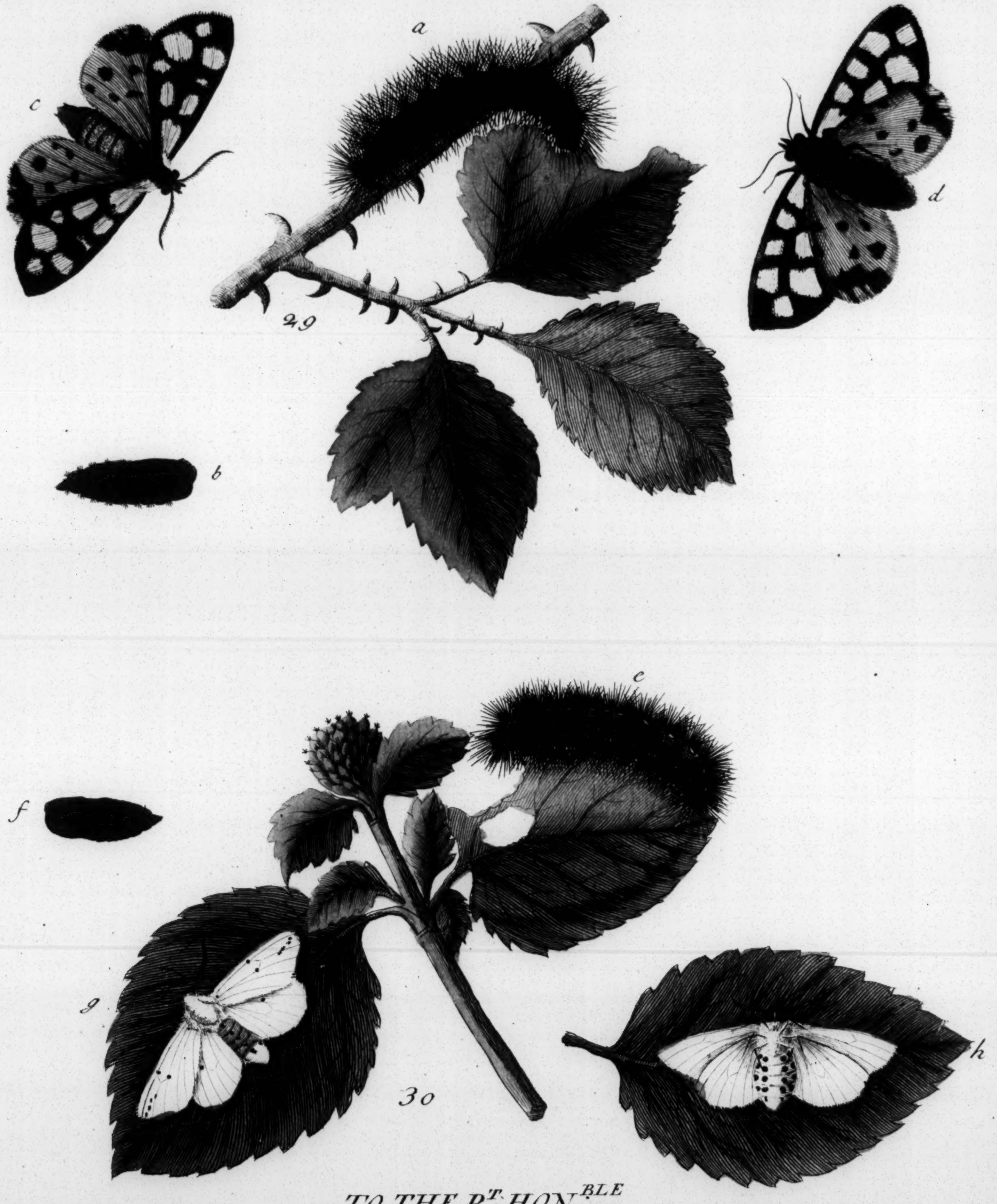
THE

DESCRIPTION *of the Twenty Firſt* PLATE.

THE MOTH whoſe *Upper ſide* is repreſented at *c*, and *Under ſide* at *d*, was brought me in *June*. It laid *Eggs* like ſmall Pearls, which towards the latter end of the ſame Month produced *Hairy blackiſh* CATERPILLARS, with ſmall Brown Spots on each *Joint*, their *Heads*, *Feet* and *Holders* Crimſon. I fed them upon *Bramble*, *Black-Thorn*, *Burdock*, *Nettles*, and *Chickweed*; they liv'd thorough the Winter, and about the beginning of *May* ſpun themſelves up in a thin *Web*, and chang'd into a *Chryſalis b*, and on the 20th of *May* came forth the *Moth*, whoſe *Upper Wings* and *Body* were Black, with large Cream Colour Spots, the *Under Wings* are Orange Colour ſpotted with Black; the under ſide of both were of the ſame Colours. The *Belly* Black edg'd with Scarlet. See *Marian*, *Vol.* 1. *Ch.* 6.

The CATERPILLAR *e* is of a dark Brown Colour with Black Spots, and a ſmall Yellow Spot on each *Joint*, the *Head* and *Feet* black, the *Holders* edged with red. It was taken the 8th of *Auguſt* feeding on *Water-mint*; it alſo feeds on the *Dutch Willow*, *White Ladies Bed Straw*, and ſeveral other *Plants* that grow near the *Water*. The 12th of the ſame Month, one of them went into the Ground and chang'd into a very Black *Chryſalis* with ſmall Black Spots on the *Sides*, and the 23d of *May* following came a White *Moth* with ſmall Black Spots on its *Wings*, the upper part of the *Belly* Orange Colour ſpotted with Black. I was ſurpriz'd to ſee a CATERPILLAR and *Chryſalis* both ſo Black produce a Moth ſo very White.

XXI



TO THE R$^{T.}$ HON^{BLE}

Henry Bentinck Earl of

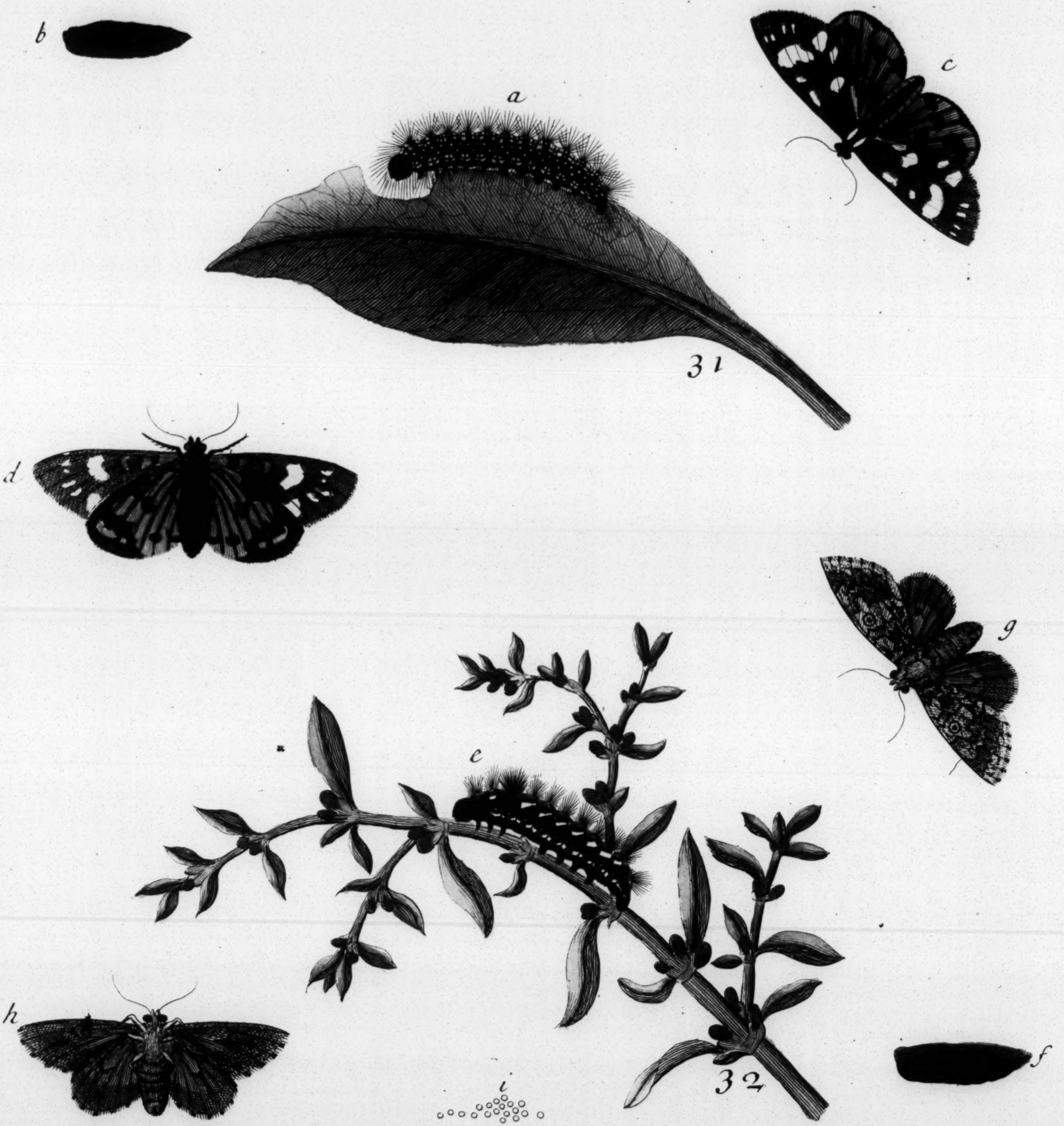
PORTLAND

this plate is humbly Dedicated by Eleazar Albin.

E. Albin del.

H. Terasson. Sculp. 1713.

XXII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TO THE MOST NOBLE
Bridget Hide Dutcheſs of Leeds
this plate is humbly Dedicated by Eleazar Albin.

E. Albin del. *H. Teraſson, Sculp. London.*

THE DESCRIPTION *of the Twenty Second* PLATE.

THE CATERPILLAR *a* is mark'd with indented Streaks of Black and Yellow, with Rings and Spots of the ſame Colour on each *Joint*, the *Head* and *Feet* of a deep Black, the *Holders* of a browniſh Red. It was taken the 14th of *April* feeding on *Hounds-Tongue*; and the 7th of *May* it went into the *Ground* and chang'd into a *Chryſalis*; and the 3d of *June* came forth a very beautiful *Moth*, the *Back* and *Upper Wings c* of a dark ſhining Green ſpotted with White and Yellow, the upper part of the *Belly* red with a Black Stripe down the middle, the *Under Wings* red ſpotted with Black, the *under ſide d*, the *Breaſts* and *Belly* Black, the *Wings of* the ſame Colour with the *upper ſide*. Theſe CATERPILRALS being at full growth ſo early in the Year, makes me believe they live all the Winter, as ſeveral others do. See *Marian*, *Vol.* 2. *ch.* 8.

The CATERPILLAR *e* is of a Brown Colour, with a Yellow indented Stripe on each *ſide*, and a Spot of Red, with a ſmall Speck of White on it, on each *Joint*; the *Back* is very elegantly mark'd with oblong Spots of White and Red, the *Head*, *Feet* and *Holders* are of a Pale Reddiſh Brown. They were taken the 24th of *Auguſt* on the *Knot Graſs*; they likewiſe feed on the *Bramble*. Some of them ſpun up againſt the ſide of the *Box* the 29th of *Auguſt*, mixing their *Hair* in the *Web*, and the 12th of *May* following came forth the *Moth*; the *Back* and *Upper Wings* of a light Hair Colour with Shades and Lines of Black, the *Under Wings* and *under ſide* of the whole *Moth* are of a Paler Colour.

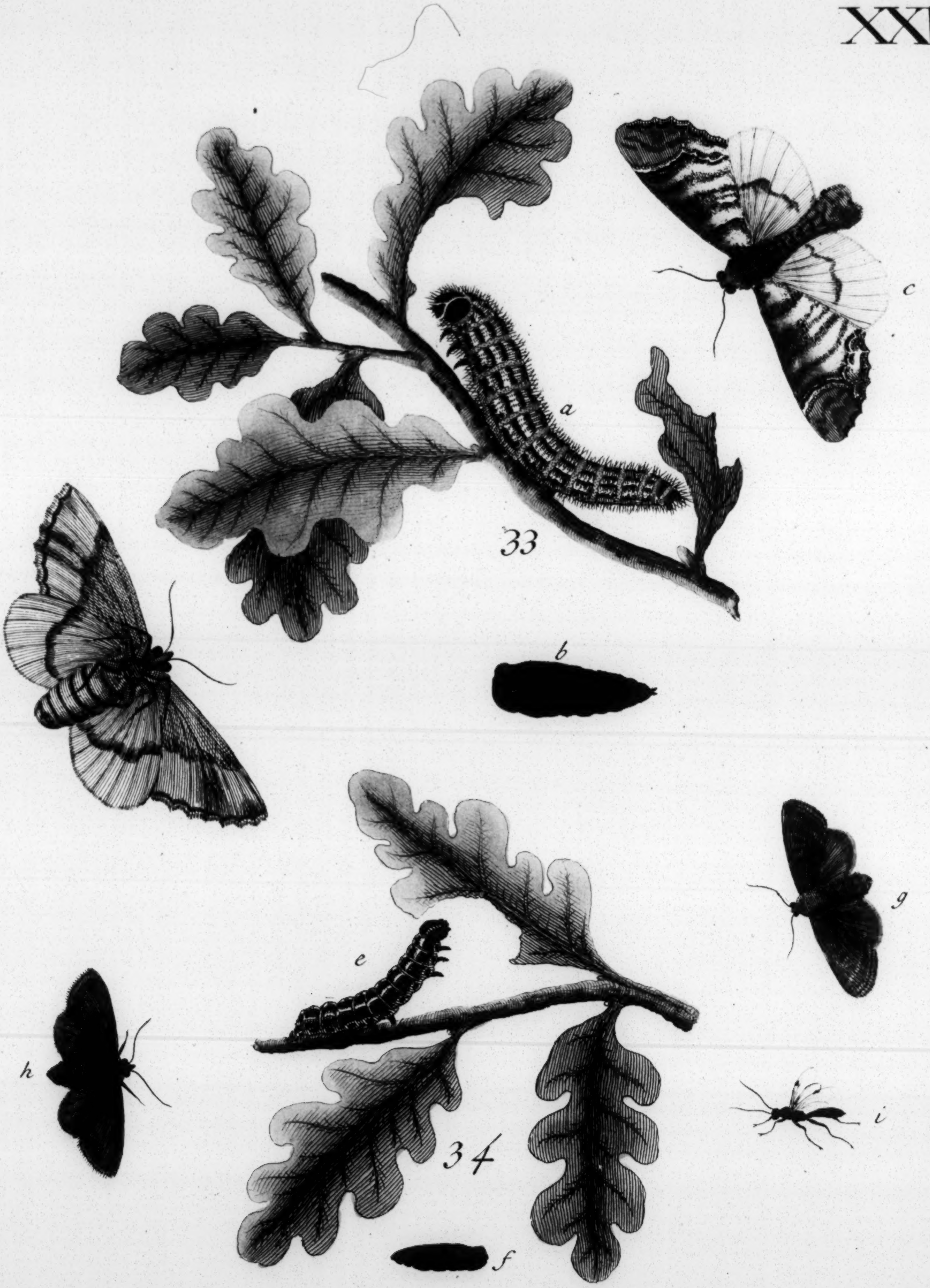
THE

DESCRIPTION *of the Twenty Third* PLATE.

THE CATERPILLAR *a* is Yellow and Black ſo mix'd as in a manner to reſemble *Scotch* Plad; the *Head*, *Feet* and *Holders* are Black, with a Spot of the ſame on each *Joint*. They were taken the 20th of *Auguſt* on the *Oak*. I have alſo found them feeding on *Lime Tree*, *Swallow*, *Willow*, and in great Numbers on the *Oſiers* in the *Aits* near *Brentford*, (where I ſhot a young Cuckow, and opening him found his Crop full of them,) ſome of them went into the Ground the 4th of *September*, and chang'd into a *Chryſalis* expreſſed at *b*. The 30th of *May* following came forth a beautiful *Moth*, the *Upper Wings c*, of a bright Aſh Colour, ſhadow'd and powder'd with light Brown, with double ingrail'd Lines of Red and Black acroſs them, the Back and Tip of the *Upper Wings* have a large Spot of Buff on each of them; the under ſide of the *Moth* is of a Pale Buff inclining to White. See *Liſter*'s *Godart n.* 95. *Ray*'s *Hiſt. Inſects p.* 162. *n.* 14.

The CATERPILLAR *e* is of a dark Brown, with Stripes of Yellow from *Head* to *Tail*, the *Head*, *Feet* and *Holders* are Brown. They are found on the *Oak*, *Haſel*, and *Lime Tree* towards the latter end of *May*. One of theſe I fed went into the Ground about the 20th of *June*, and chang'd into a *Chryſalis* as *f* expreſſes, and the 10th of *February* following came forth the *Moth g*, of a pale reddiſh Brown; one of theſe CATERPILLARS being Flyblow'd produc'd an *Ichneumon* at *h*, of a dark red Colour, on the 28th of *April*.

XXIII


c
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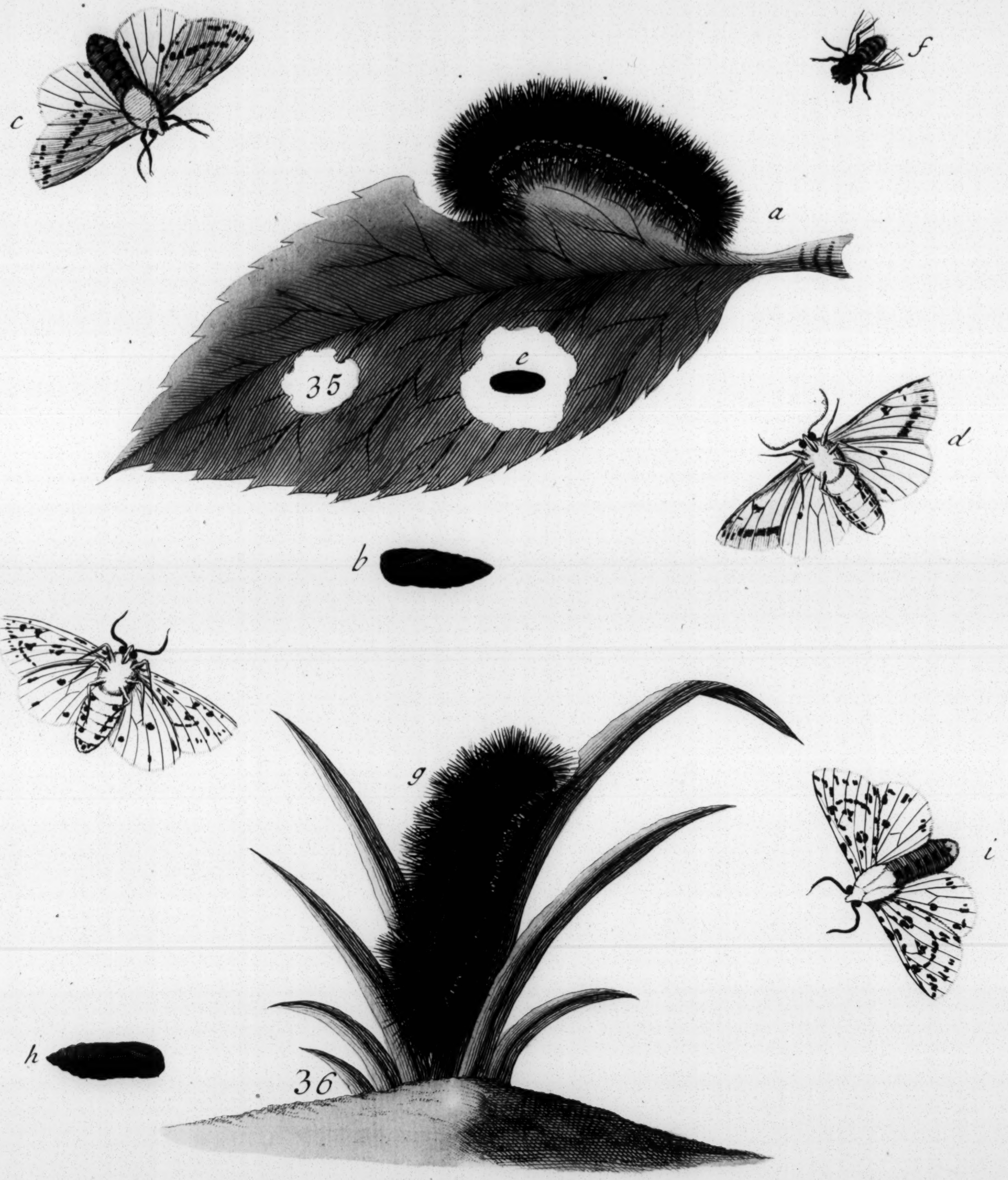
f

TO THE RIGHT HONORABLE
Thomas Earl of Strafford
this plate is humbly Dedicated by Eleazar Albin.

E. Albin del.
H. Teraſson, Sculp. 1713

XXIV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36

To Sr Tho: Lee of Hartwell in the County of Bucks Bar^{t}.
this plate is humbly Dedicated by Eleazar Albin.

E. Albin del.

H: Terasson, Sculp. London.

THE

DESCRIPTION *of the Twenty Fourth* PLATE.

THE CATERPILLAR *a* is of a Brown Colour on the *Back*, the *Belly* is of a Yellowiſh Green, parting from the Brown by an Aſh Colour Streak ſpotted with Yellow, the *Head and Feet* are of a Browniſh Yellow. It was taken the 16th of *July* on the *Jeruſalem Artichoke*, they feed alſo on *Elder*, *Nettles*, *Lettice*, and divers other *Plants*. They ſpun up about the middle of *Auguſt*, and changed into a *Chryſalis b*, and the 15th of *May* following came forth the *Moth c*, of a Buff Colour ſpotted with Black; their *Eggs* are of a light Green. They hatch'd the 13th of *June*. The CATERPILLARS, when firſt they came forth of the *Eggs*, were all White and Hairy ſome of them were *Flyblow'd* and each produced one *Chryſalis* and *Fly*, repreſented at *e* and *f* in the Plate. Theſe CATERPILLARS are very common and miſchievous in moſt Gardens; but may be eaſily ſhak'd off the *Plants* and kill'd. This is *Godart's* 93, in Doctor *Liſters's* Edition.

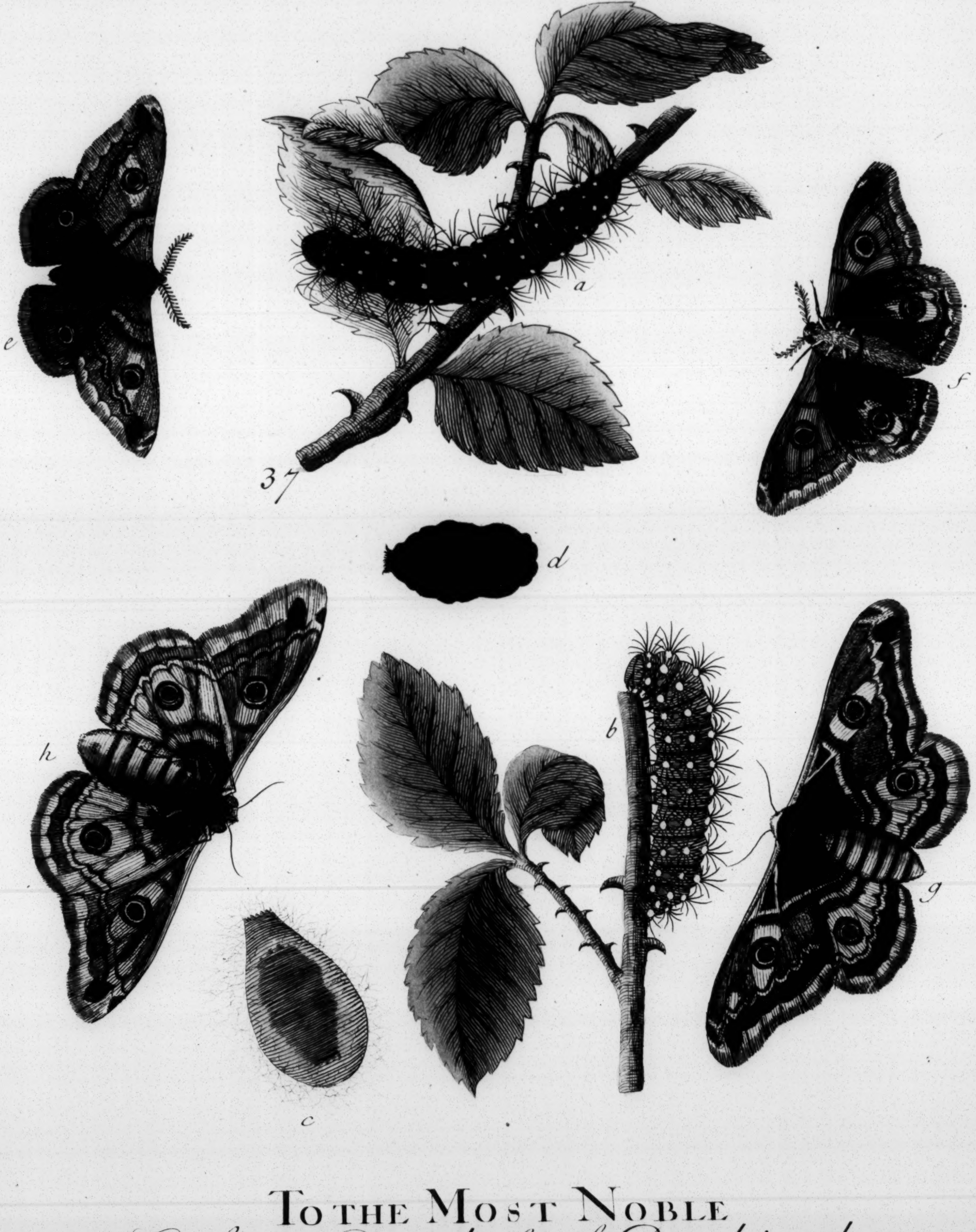
The CATERPILLAR *g* is of a dark Brown Colour, with a Stripe of red down the *Back*, the *Head* and *Feet* Black. It was taken in a *Garden near Hackney* the 14th of *Auguſt*; it fed on *Graſs*, *Chickweed*, *Orach*, *Willow*, and ſeveral other *Plants*. The 2d of *September* it ſpun itſelf up in the Leaves and chang'd into a *Chryſalis*; the 14th of *March* following came forth the *Moth*, the *Wings* on both ſides White ſpotted with Black, the upper ſide of the *Tail* Orange Colour ſpotted in like manner. This CATERPILLAR is not very common, (this is *Codart's* 96.) By the Character he gives of the CATERPILLAR it deſerves the Name of the *Diſſembler*. See *Merian Vol. Chap.* 46.

THE

DESCRIPTION *of the Twenty Fifth* PLATE.

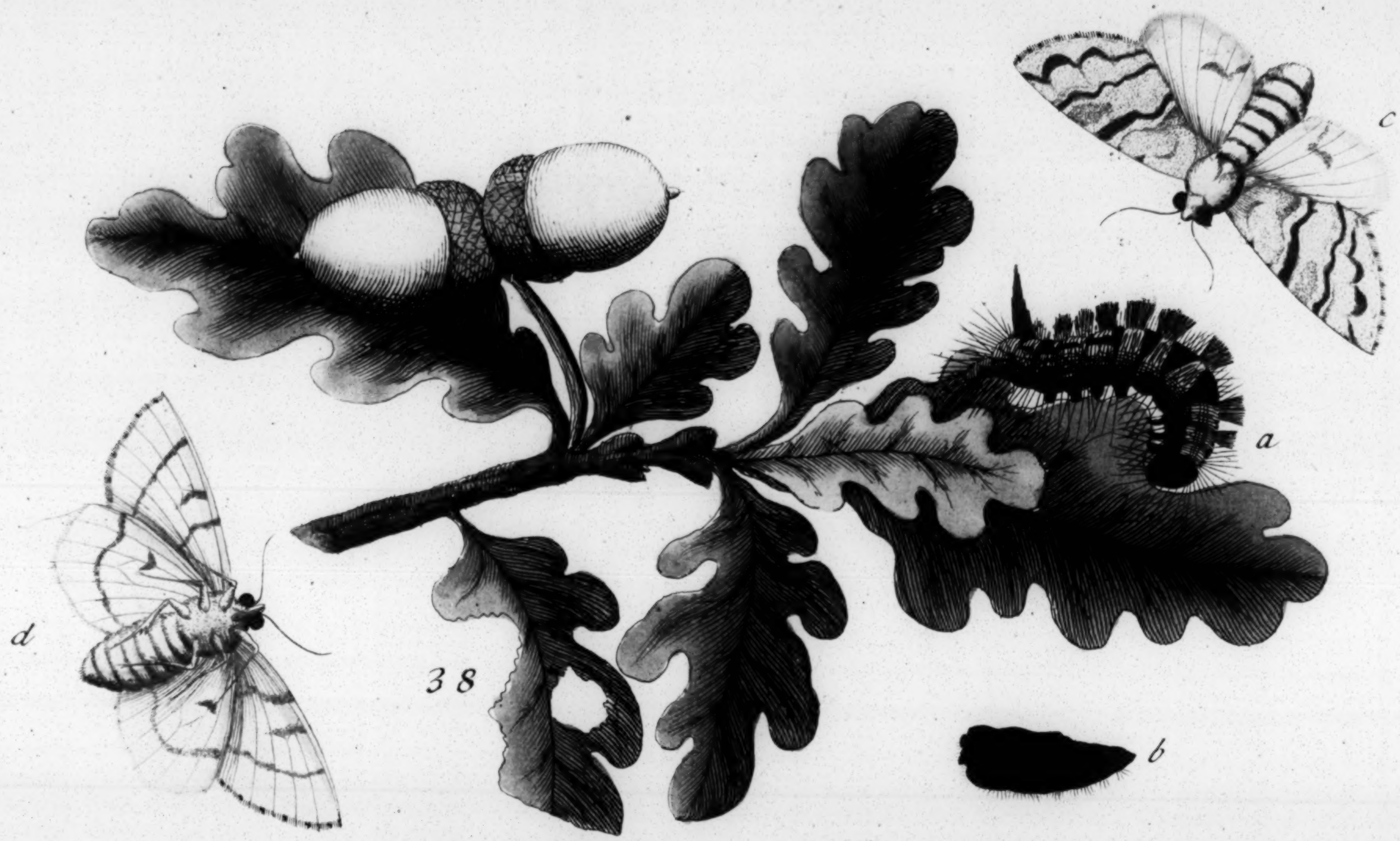
THE CATERPILLAR *a* is at the firſt hatching Black and Rough, with Stripes of Orange Colour on his *Sides*, in which ſtate he continues 14 Days, and then caſts his *Skin* and becomes of a Graſs-green Colour with indented Rings of Black ſpotted with Yellow; if you vex him, he will eject a clear Liquor out of his *Sides*, that all his *Hair* will ſtand of a Dew. I am not certain there is any harm in this Liquor, though he ſeems to emit it in his Defence. The 16th of *July* one of them ſpun up himſelf in a tranſparent *Caſe c* with an Entrance much like that of the *Baskets* which *Fiſhermen* lay to catch *Eels*, and changed into a *Chryſalis d*; and on the 18th of *March* came forth a *Moth*, whoſe *upper Side* is repreſented at *e*, and the *under Side* at *f*; this was a *Male*: the Deſcription of the *Female* follows.

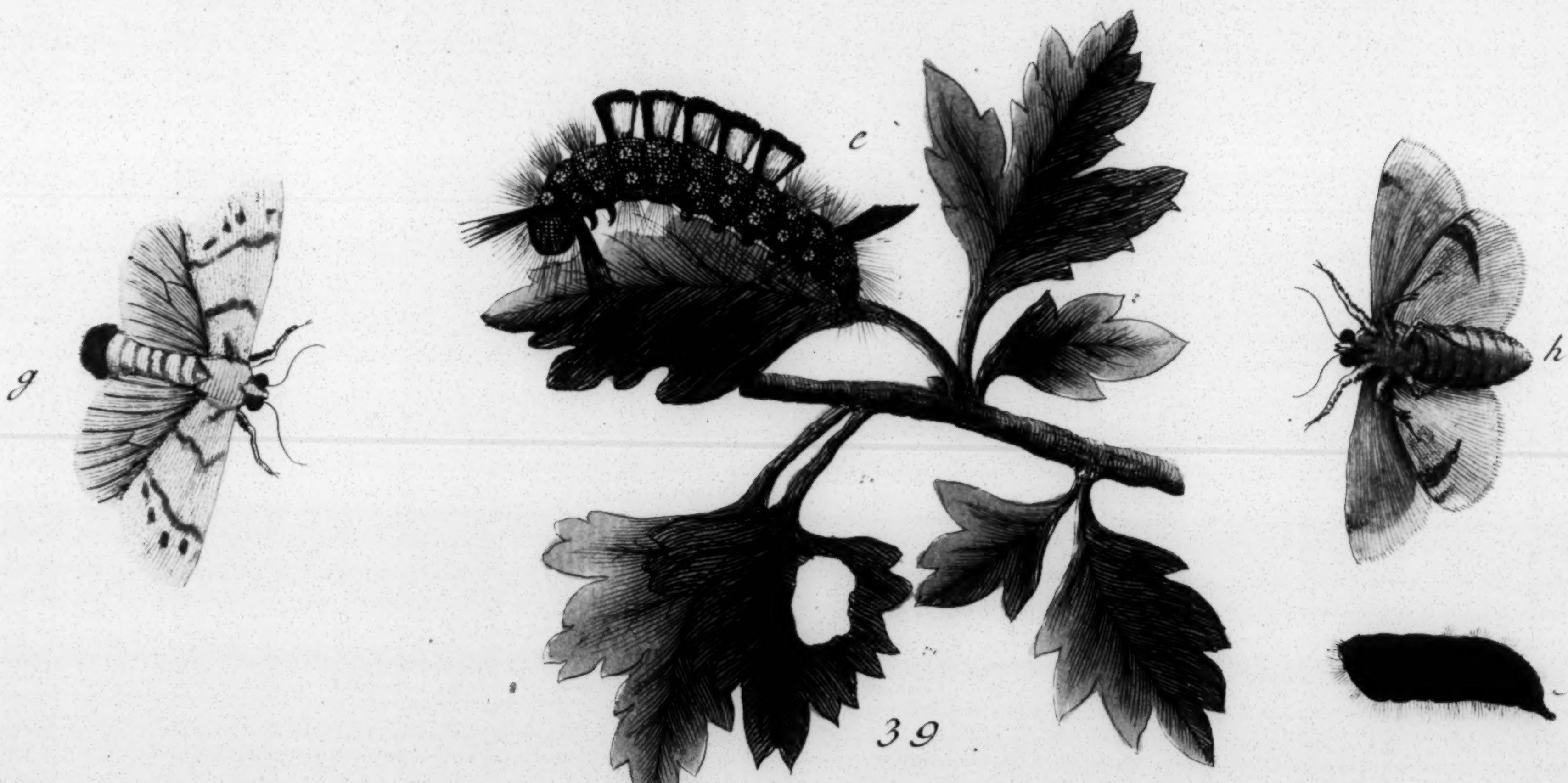
The CATERPILLAR *b* is of a more yellowiſh Green, ſpotted with Yellow as the former, with a narrow Ring or Circle round each Spot. This ſpun *Her* ſelf up the 20th of *Auguſt*, and the 5th of *April* it produced a *Female Moth*, much larger than the other; they both have an *Eye* in each *Wing*, and their other Marks are very much alike, tho' they differ in Colour: The *Male* being much darker, and his *under Wings* Orange border'd with Red, and that paler towards the Edge. See *Merian*, *Vol.* 1 *Chap* 23.



TO THE MOST NOBLE
Catherine Dutcheſs of Buckingham
this plate is humbly Dedicated by Eleazar Albin.

E. Albin del.
H. Teraſson, Sculp. London





TO THE MOST NOBLE
Charles Duke of Grafton
this plate is humbly Dedicated by Eleazar Albin.

E. Albin del.

H: Terasson, Sculp, London

THE

DESCRIPTION *of the Twenty Sixth* PLATE.

THE CATERPILLAR *a* in this Table is of a Yellow Colour, ſome of the ſame *Species* are of a light Green, others almoſt Hair Colour, and ſome Reddiſh; they have all a *Tuſt of Hair* on each *Joint* of their *Backs*, of their reſpective Colours; the Openings between the *Joints* are of a fine Black like Velvet, and each of them has a more longer and more pointed *Tuſt* of Scarlet Hair near the Tail. They were taken at the latter End of *Auguſt* on the *Haſle*, and on the 10th of *September* one of them ſpun up and changed into a hairy brown *Chryſalis b*, with Rings of Yellow; and on the 5th of *February* came forth a white *Moth c d* ſtreaked and motled with Brown. See *Merian*, *Vol* 1. *Chap.* 47.

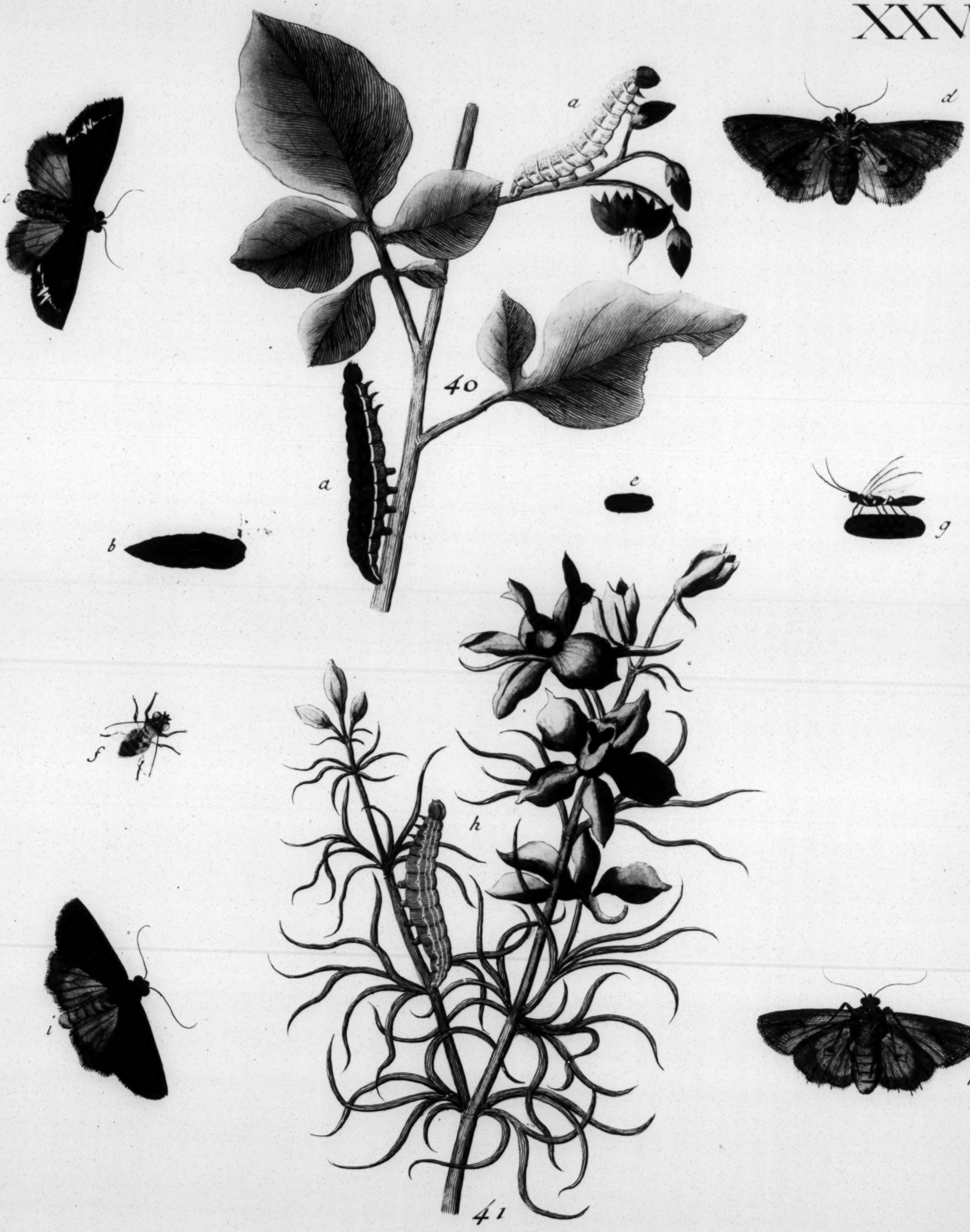
The CATERPILLAR *e* is black, with white Spots on each *Joint*; on the middle of his *Back* are 5 white Tuſts of Hair, the Tops of which are black; It hath a black Tuſt on its *Tail*, and 2 on its *Head* repreſenting *Horns*. They were taken the 10th of *May* on the *White Thorn* near *Pecham* and *Eltham* in *Kent*, and by *the* 2 *Waters in Hartfordſhire*; they alſo fed on *Black Thorn* and *Bramble*. Before they ſpun up, which was about the middle of *May*, the Hair of their Sides turn'd Yellow, and the 11th of *June* came the *Moth g* of a light hair Colour, ſtreaked croſs the upper Wings, and ſpotted with Orange and pouder'd with Black. Their Eggs were of a light Grey, incloſed with a brown woolly Subſtance to preſerve them in Winter. This *Chryſalis* is likewiſe Hairy and of a dark brown Colour repreſented at *f*.

THE

DESCRIPTION *of the Twenty Seventh* PLATE.

THE 2 CATERPILLARS *aa* in this Table are one of them of a yellowiſh Green, with pale yellow Spots, and in each of them a ſmall black Speck, its *Head* of a browniſh Colour; the other is of a light Brown ſpotted as aforeſaid, and has a yellow ſtripe on each Side. They were taken the 16th of *July* on the *Amara Dulcis*, or *woody Night-ſhade*, on which they fed till the 14th of *Auguſt*, and then went into the *Ground*, and changed into a dark red *Chryſalis*; and the 15th of *May* following produced a reddiſh brown *Moth* expreſſed at *cd*. Some of theſe CATERPILLARS had each a large white flat *Maggot* came from them, which made themſelves hard black *Caſes* lined with 4 diſtinct *Membranes* one within another, from which came an *Ichneumon* the 11th of *May*, the *Body* and *Legs* of it were of a dark red Colour; from others came 3 or 4 *Maggots* which changed into ſmall red *Chriſalies* at *e*, each of which produced a *Fly* about the middle of *April* expreſſed at *f*.

The CATERPILLAR *b* was Green ſtriped with White. It was taken in a *Garden* near *Hackney* the 14th of *June* feeding on the *Lark-ſpur*, it went into the *Earth* the 17th of the ſame Month and changed into a *Chryſalis*; and the 23d of *July* came a *Moth* of a dark earthy Colour with 2 black Spots in each *upper Wing*, the *under Wings* of a pale Ruſſet, as was alſo the whole *under Side* of the *Moth*.


a
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a
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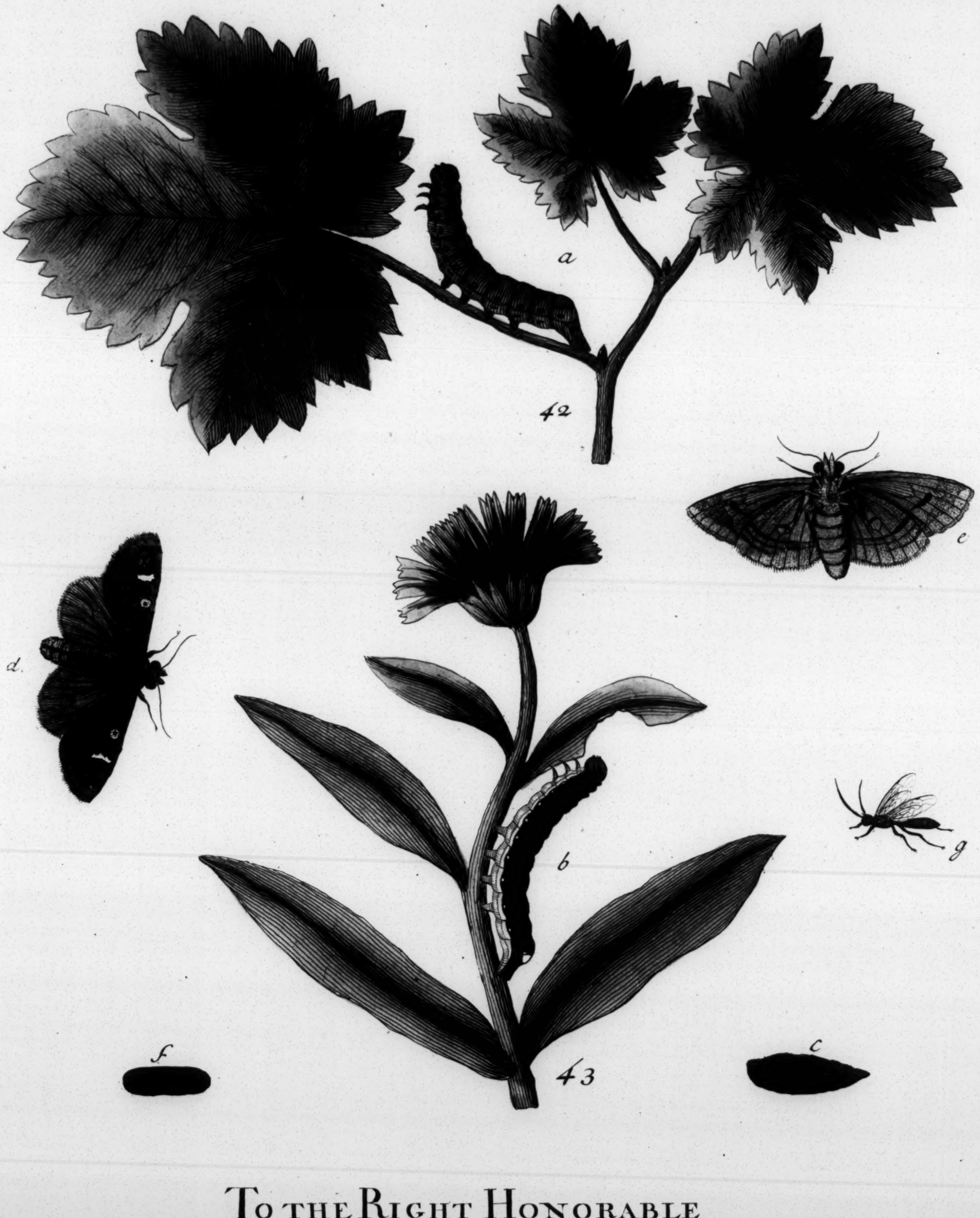
To the Right Honorable
Henry Earl of Thomond
this plate is humbly Dedicated by Eleazar Albin.

E. Albin del.

H: Terasson, Sculp. London.

XXVIII



To the Right Honorable
Henrietta Stanley Counteſs Dow^{r}. of Angleſea
this plate is humbly Dedicated by **Eleazar Albin**

E Albin del.

H. Ferguson, Sculp.

THE

DESCRIPTION *of the Twenty Eighth* PLATE.

THE CATERPILLAR *a* in this Table is of an Olive Colour, with a white Spot circled with black, on each *Joint.* It was taken feeding on the *Vine* the 12th of *September*, and the 20th of the ſame *Month* it went into the Ground and changed into a *Chryſalis*; and the 24th of *May* came a dark marbled *Moth*, with 2 Spots of White on the *upper Side* of each *outer Wing*, the *under Wings* and *under Side* of the *Moth* were of a ſhining Hair Colour. One of theſe CATERPILLARS produced an *Ichneumon* of the ſame Kind, expreſt as in Table 27.

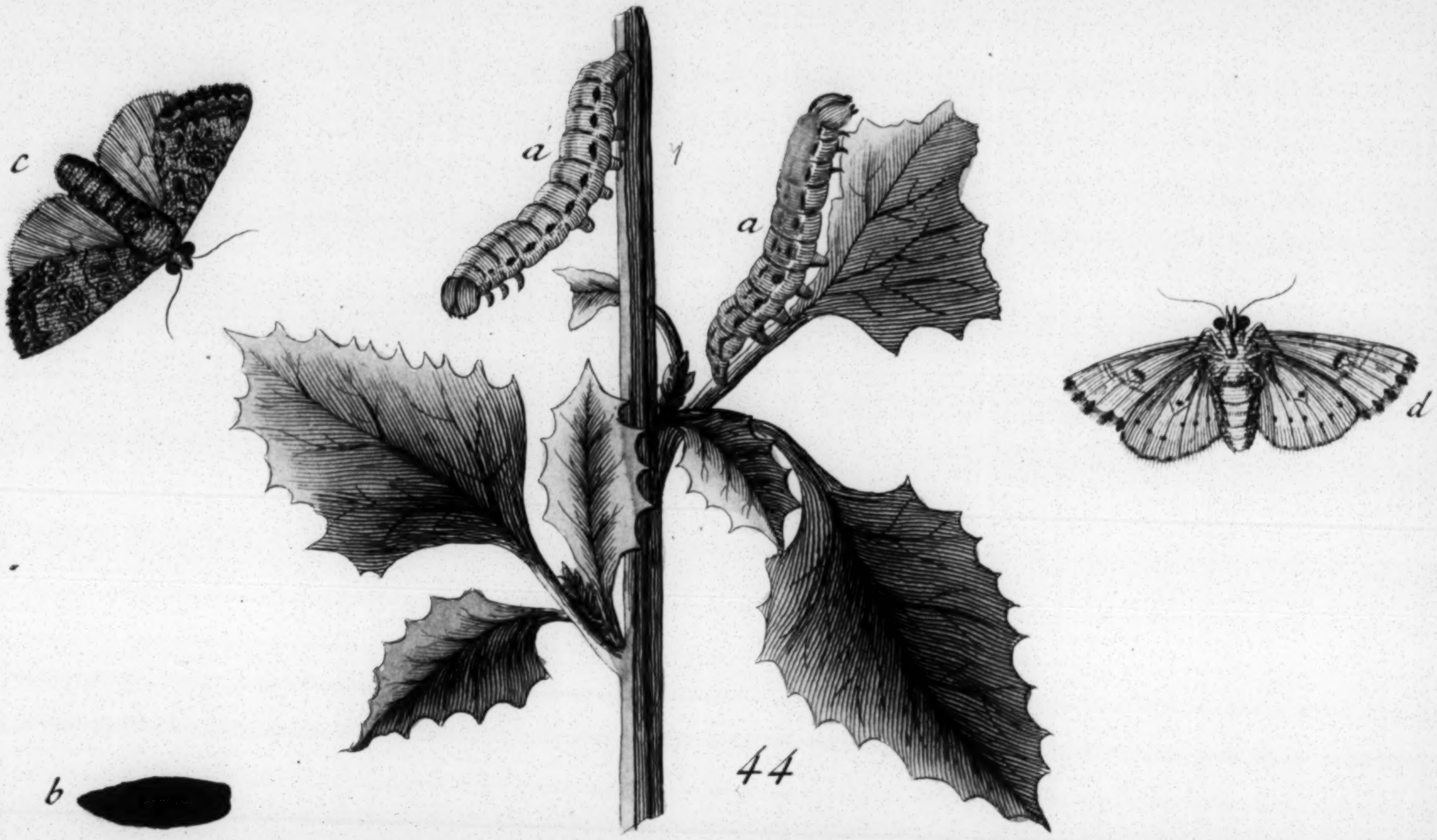
The CATERPILLAR *b* is of a dark Colour on the *Back* ſtriped with Black, the *Belly* light Green, parted from the dark Colour by a Streak of White, the *Head* of a deep Yellow. It was taken the 21ſt of *July* feeding on the *Marygold*; they alſo feed on the *Horſe-radiſh*, *Affricans*, and *Cabbage*, of which laſt they make great Deſtruction. They went into the Ground the 9th of *Auguſt*, and the *Moth* came forth in the Beginning of *May*, which was the ſame with the laſt deſcribed, tho' the CATERPILLARS differ in Colour. I am told that by ſprinkling your *Cabbage Plants* with a *Lye* made of *Aſhes* and a Quantity of *Lime*, *Salt* or *Soap-boyler's Lees*, you may deſtroy them and not hurt your *Plants*.

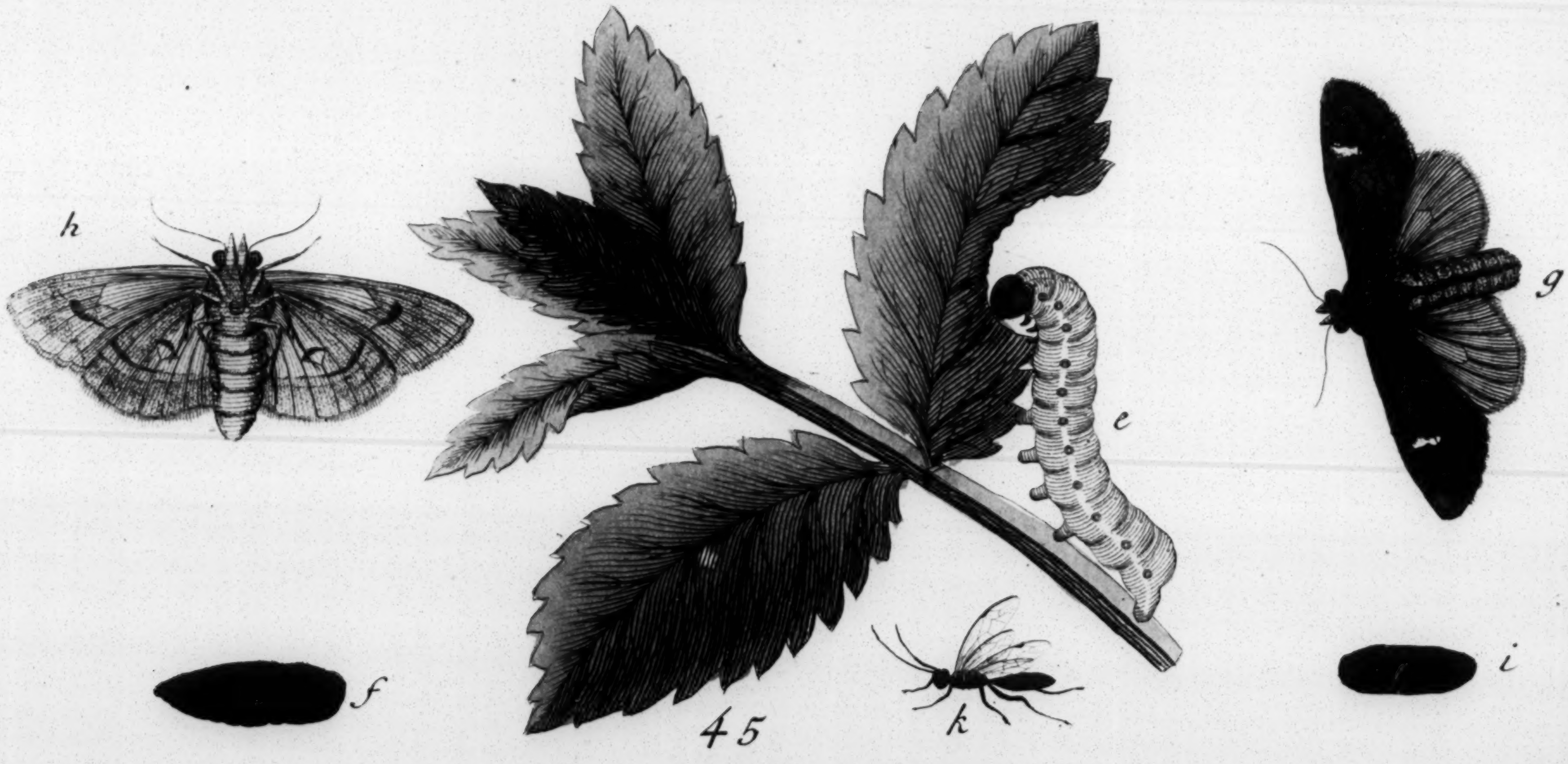
THE

DESCRIPTION *of the Twenty Ninth* PLATE.

THE CATERPILLARS *a a* in this Table, that on the *Leaf* is of a dark blueiſh Green, ſtriped on the *Sides* with White and Roſe Colour, and a black Spot on each *Joint*; the other on *Stalk* is of a pale yellow Green, ſpotted on the *Sides* with Roſe Colour and Black; the firſt of them goes into the *Earth*, and changes into a *Chryſalis*. They were taken in the Beginning of *Auguſt* on the *Orrach*; their Change was on the 18th of the ſame Month, and the *Moth* came the 27th of *June* following, being of a light Brown or Ruſſet Colour, as *c d* repreſents in the Table; thoſe that are yellowiſh for the moſt part are diſeaſed, and die without changing into *Chryſalies*.

The CATERPILLAR *e* is of a pale Green, with ſmall black Circles on its *Sides*; its *Head* and *Feet* of a light brown Colour: I had 8 of them, not one of them differing from the other in Spots, Shape or Colour. They were all taken at the ſame time feeding on the *Spear-mint* the 18th of *September*, and on the 27th of the ſame Month they went into the Ground, and changed into *Chryſalies*; and the 23d of *May* came the ſame Kind of *Moth*, as in the Table 28; one of them produced an *Ichneumon* repreſented at *k*, the *Chryſalis* of the *Ichneumon* at *i*. I have alſo found theſe CATERPILLARS very large feeding on the *Knot-graſs* about the 23d of *July*.



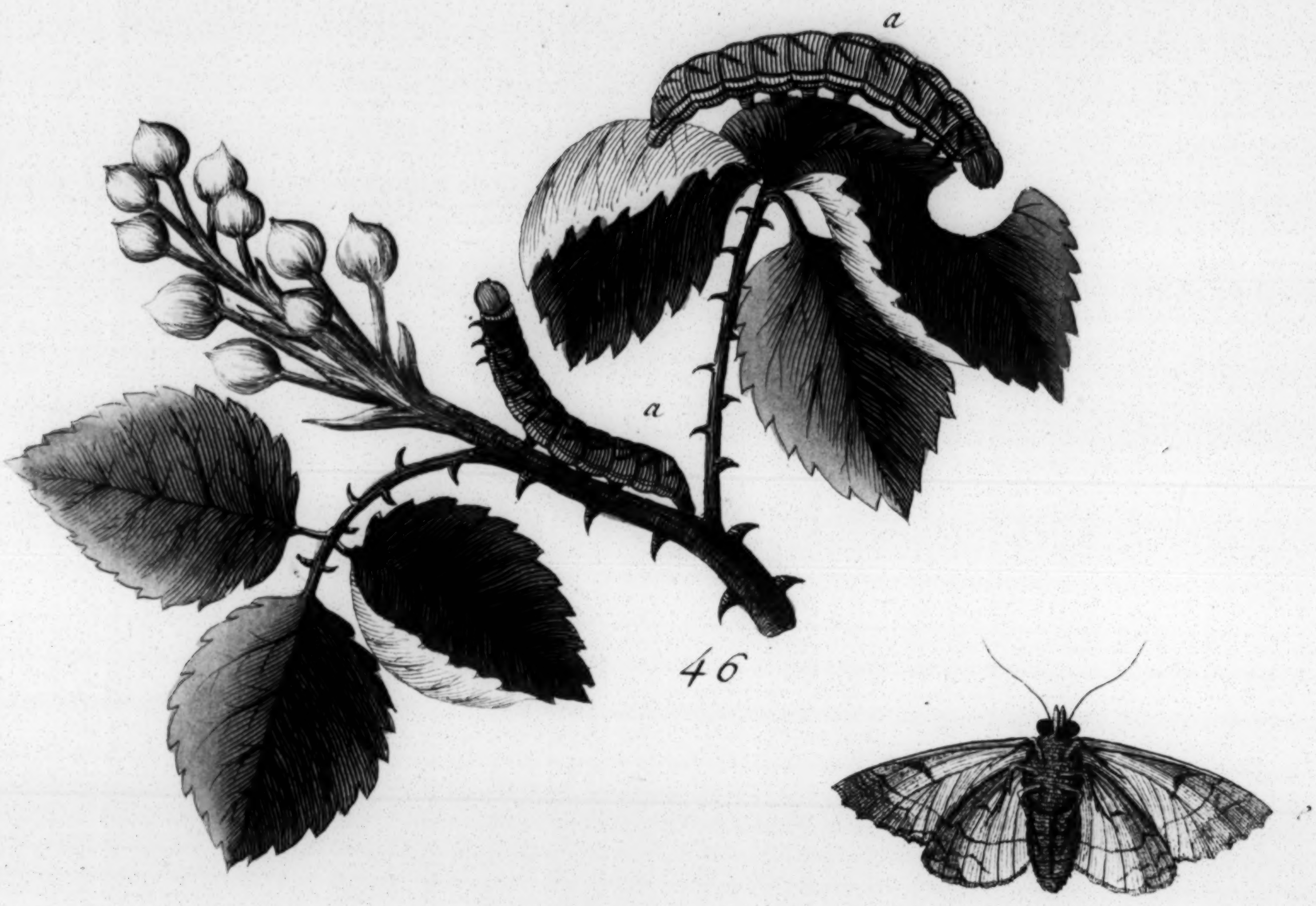


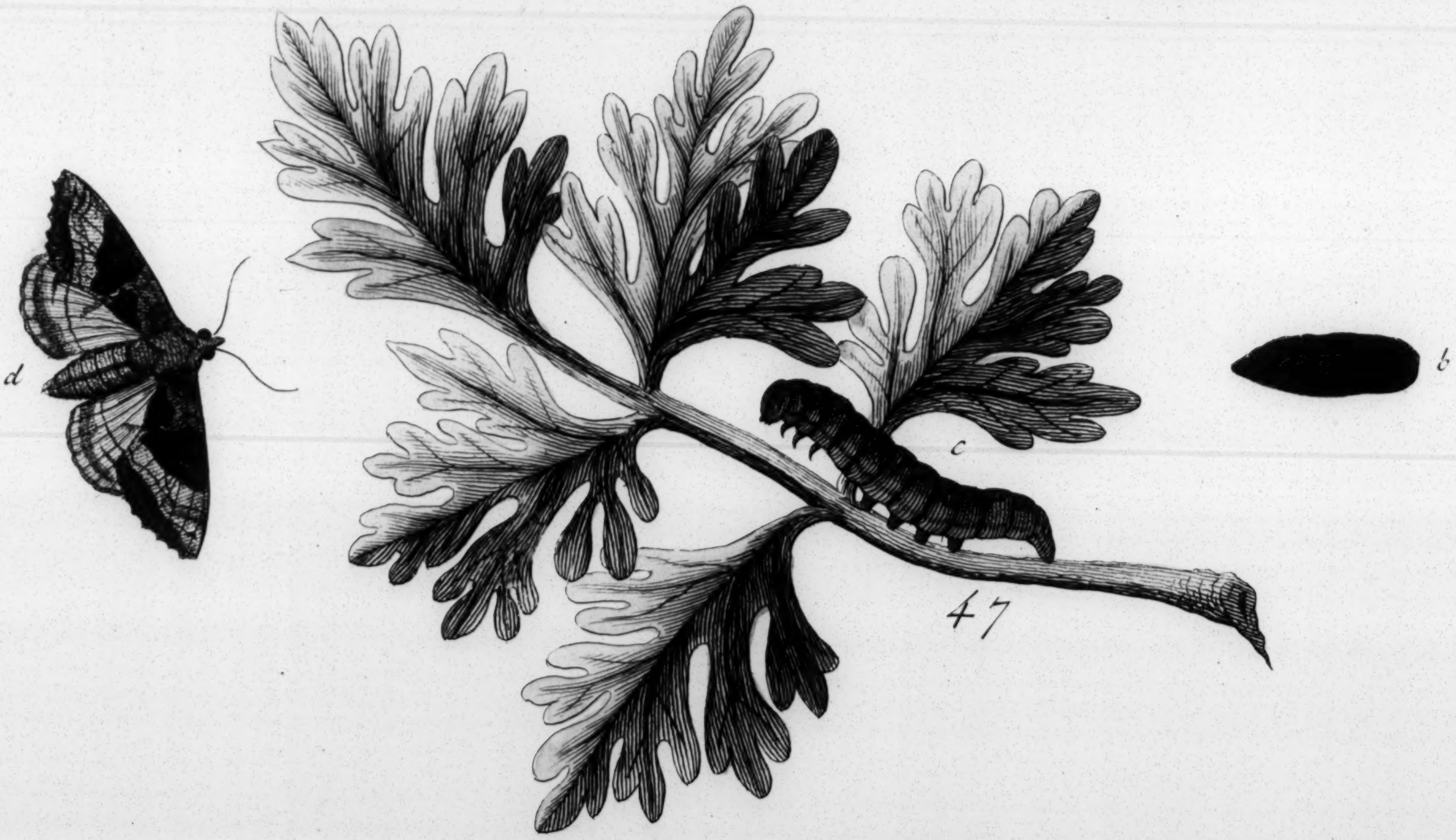
TO THE RIGHT HONORABLE
John Lord Ashburnham
this plate is humbly Dedicated by Eleazar Albin.

E. Albin del.

H. Terasson, Sculp. London.

XXX





To the Right Honorable
Elizabeth Bruce Counteſs of Cardigan
this plate is humbly Dedicated by Eleazar Albin.

E. Albin del. *H: Feraſson, Sculp, London,*

THE

DESCRIPTION *of the Thirtieth* PLATE.

THE CATERPILLARS *a a* in this Table, the *uppermoſt* is of a deep Green, its *Heaa* blueiſh, the *other* of a yellowiſh Green, the *Head* of it lighter coloured, they had both a mark of Black on their *Backs*, on each *Joynt* like *Arrow-heads* pointing towards the tail. They were taken on the *Bramble* the 26th of *June* near *Newington-green*, they went into the *Ground* the 10th of *July* ſpinning the *Earth* about them with their Web, and chang'd into *Chryſalies*; and on the 6th of *Auguſt* came forth a beautiful ſcallop'd winged *Moth* elegantly marked, as is repreſented in the Table. See *Goddart part* 1. *Tab.* 56.

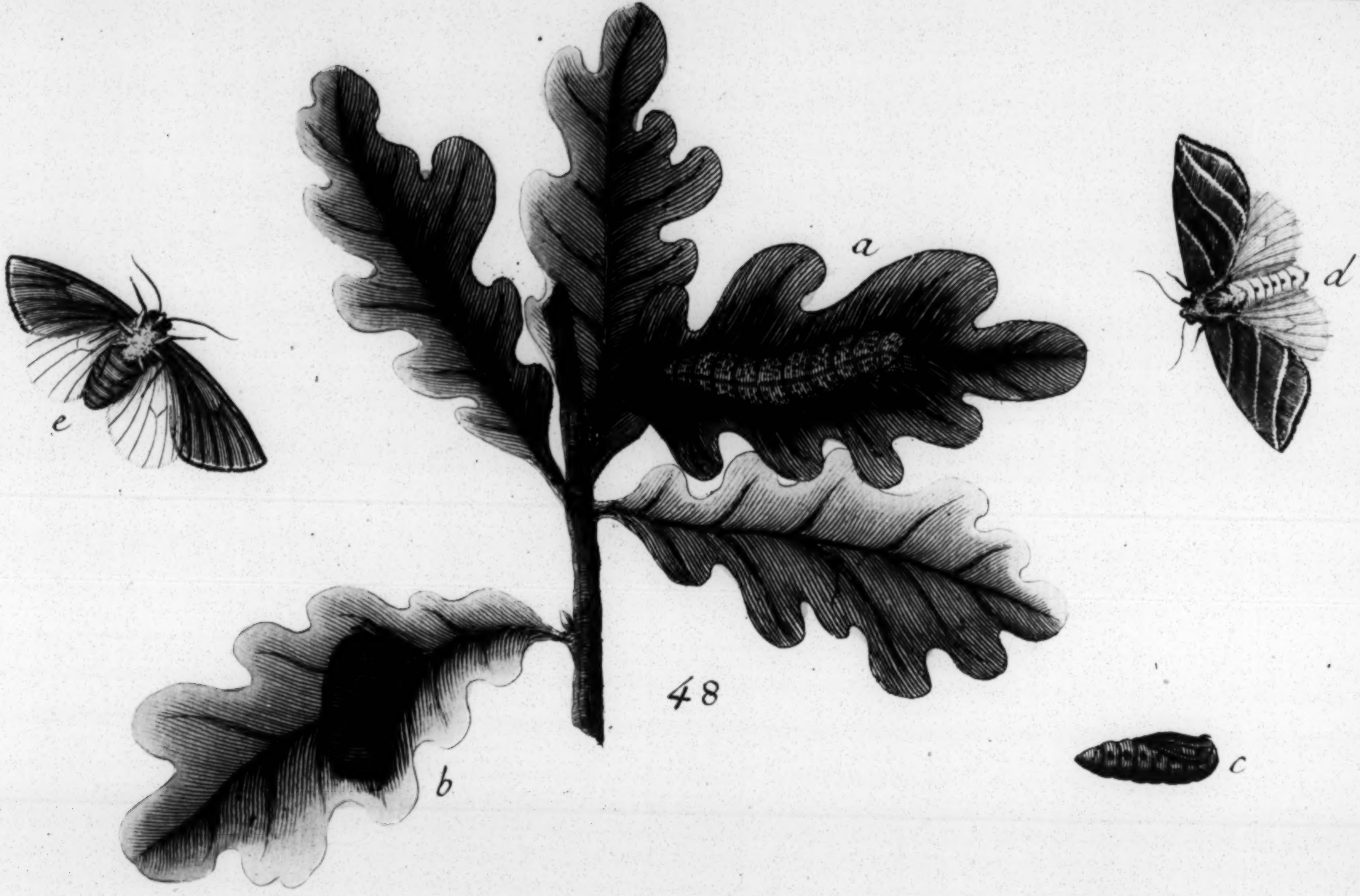
The CATERPILLAR *c* is of a browniſh Olive Colour; with the ſame Marks on his Back as the other. It was taken feeding on *Worm-wood* about the Beginning of *Auguſt*, and changed into a *Chryſalis* on the 5th of the ſame *Month*, and on the 4th of *September* came forth the *Moth d e*. The 3 CATERPILLARS repreſented in this *Table*, though ſo different in Colour, are without doubt of the ſame Species as appears by the *Moths* they produced; I had one of theſe *Moths* which did not come forth 'till the 26th of *November*. See *Liſter on Goddart*, *page* 54. *N*° 44.

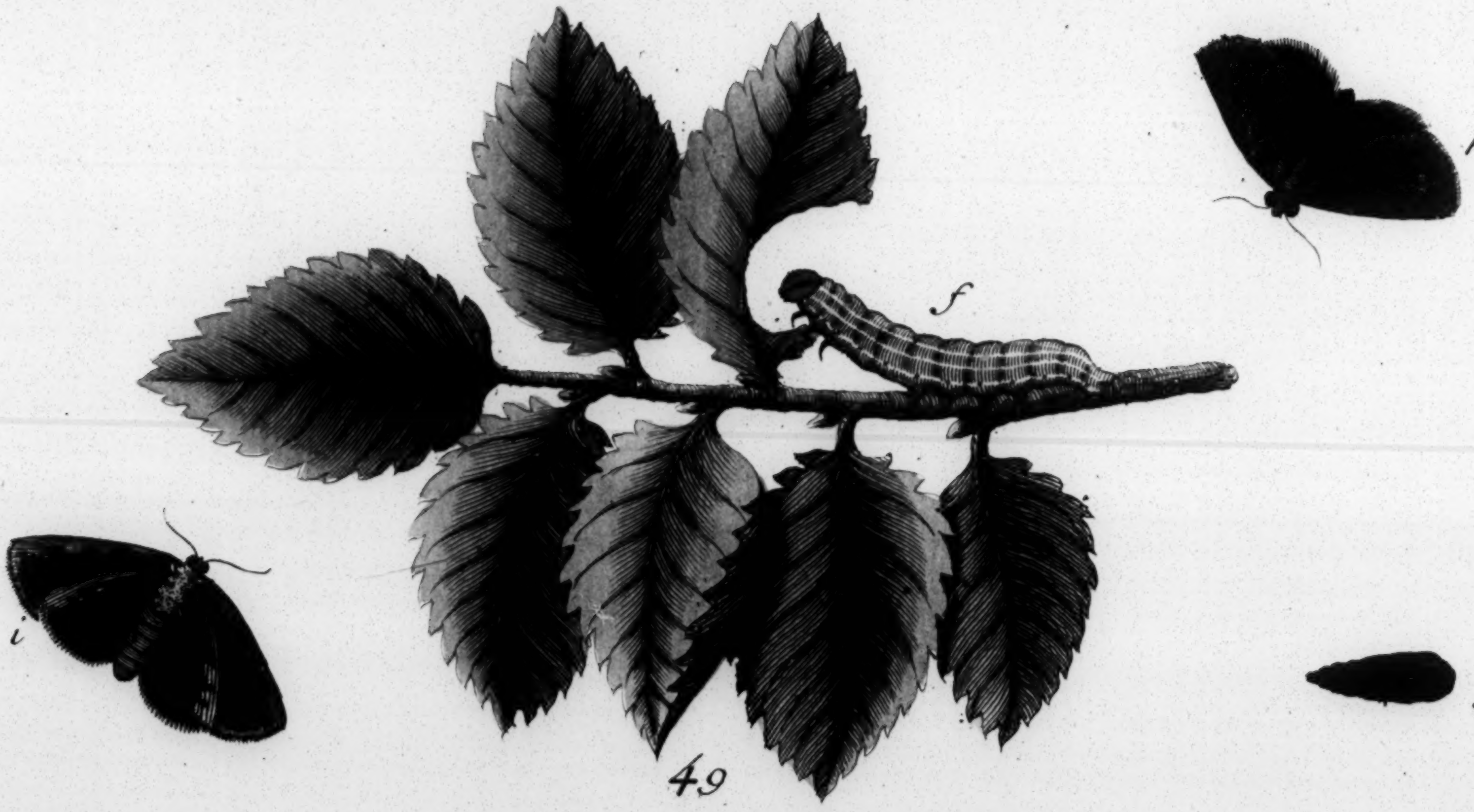
THE

DESCRIPTION *of the Thirty Firſt* PLATE.

THE CATERPILLAR *a* is of a pale yellowiſh Green, full of ſmall Specks with 2 Spots or Points on his *Tail*. It was found feeding on the *Oak* in *Biſhop's-wood* on the 20th of *September*; and on the 25th of the ſame Month it worked it ſelf up a dark brown *Caſe* on the back-ſide of an *Oak* Leaf, and changed into a *Chryſalis*; and the 30th of *April* came the *Moth*, the *Back* and *upper Wings* of a light Green, ſtriped as it were with Silver, and edged at the Bottom of the *Wings* with Crimſon; the *Body* and *under Wings* whitiſh ſhaded with yellowiſh Green.

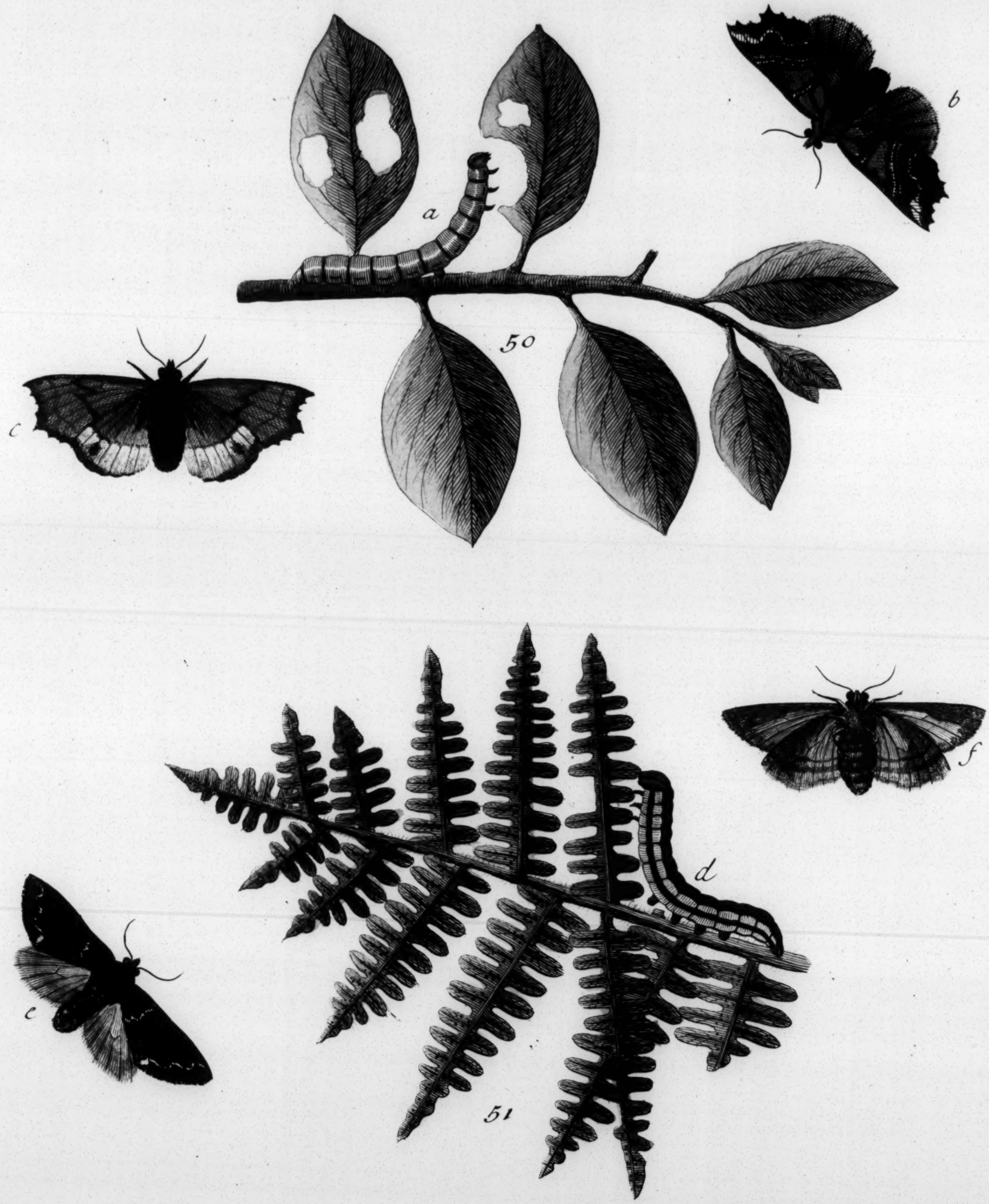
The CATERPILLAR *f* is of a light blueiſh Green, ſtriped with White; with ſmall black Spots on the lower *Stripe*, the *Head* Red. It was found the 31ſt of *May* feeding on the *Elm*, it hides it ſelf by drawing the Leaves together with a Web, and feeds commonly in the Night; it went into the *Ground* the 3d of *June*, and changed into a *Chryſalis k*; and the 4th of *July* came the *Moth* of a light brown Colour with darker Shades, the *under Wings* very Dark edged with Yellow, as *h* and *i* repreſents in the *Table*.





To Kenrick Grantham of Stifford in ye County of Essex Esqr.
this plate is humbly Dedicated by Eleazar Albin.

E. Albin del. H. Terasson, Sculp.



To Robert Briſtow of Mitcheldaver in ye County of Hants Esq
one of the Clerks Comptroller of his Majeſtys Green Cloth
this plate is humbly Dedicated by Eleazar Albin.

E. Albin del.

H. Teraſson, Sculp. Londini

THE DESCRIPTION *of the Thirty Second* PLATE.

THE CATERPILLAR *a* in this Table was of a tranſparent Green, with a Line of White on each Side the *Back*. It was taken on the *Sallow* near *Hampſtead* on the 24th of *June*, on which it fed till the 30th of the ſame *Month*; at which time it ſpun it ſelf up in a *Leaf*, and changed into a *Chryſalis*; from which on the 25th of *July* came a moſt beautiful *Scallop-winged Moth*, *b* and *c* in the Table repreſenting the *upper* and *under Side* of it. See *Liſter* on *Goddart*, *page* 38. *N°* 30.

The CATERPILLAR *d* was of a yellow Colour ſtriped with Black, the *Head* and *Holders* Red. It was found on the *female Fearn*, in a *Wood* by *Charlton* in *Kent* on the 30th of *Auguſt*; for want of *Fearn* I fed it on *Orrach*, and it grew much bigger than the CATERPILLAR in the *Table*, the black Stripe on its *Back* changing to a reddiſh Hair Colour; the 24th of *September* it went into the *Earth*, in order to its Change into a *Chryſalis*, and remained till the *Spring* following, then came forth the *Moth* expreſs'd at *e f*.

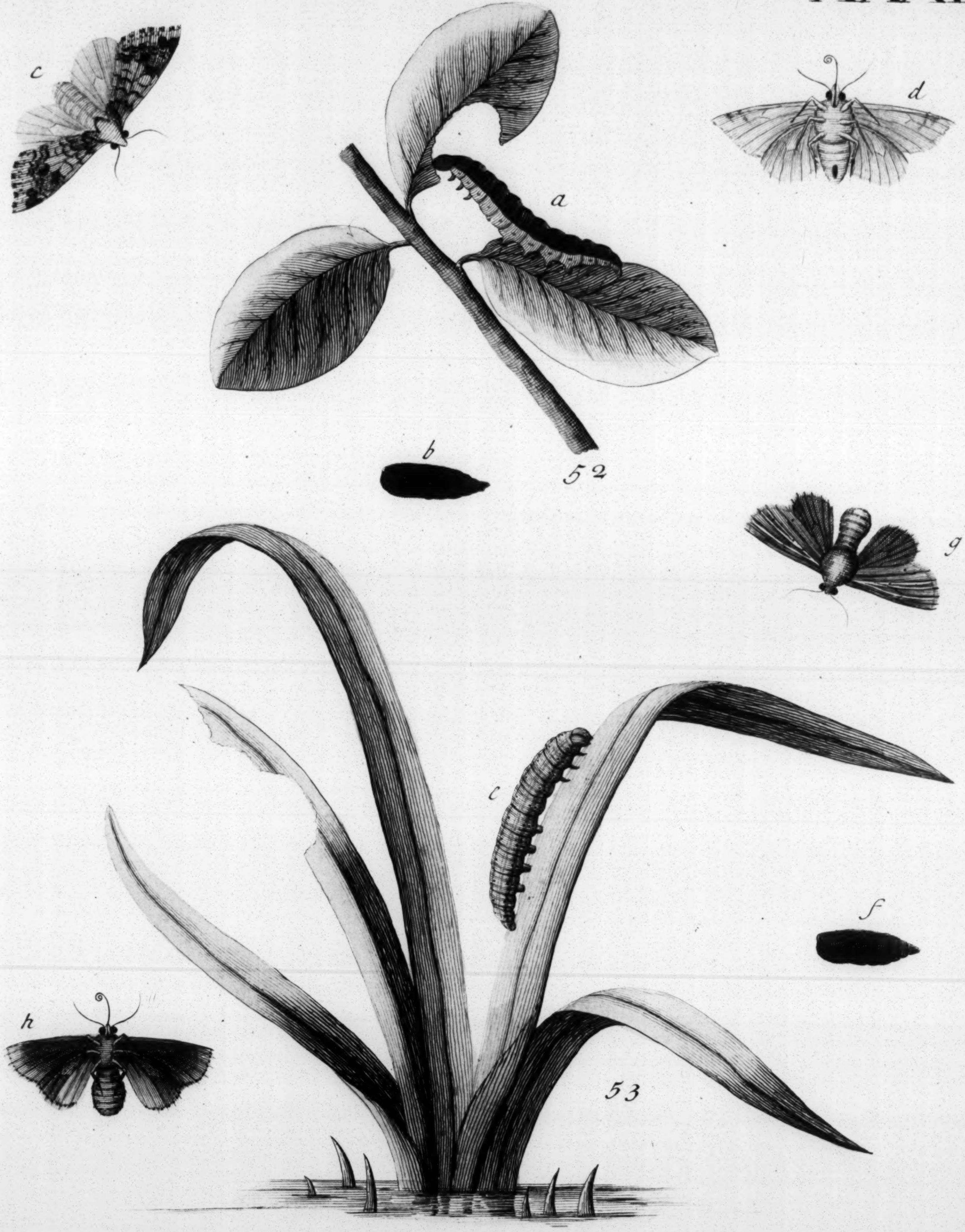
THE

DESCRIPTION *of the Thirty Third* PLATE.

THE CATERPILLAR *a* in this Table was of an Olive Colour on the *Back*, the *Belly* of a pale Fleſh, and the *Head* Red. It was taken on the *Sallow* the 17th of *May*. It fed 'till the 1ſt of *June*, and then went into the Ground, and changed into *Chryſalis b*, and the 12th of *Auguſt* came a *Moth*, the *upper Wings c* of a fine Yellow, clouded and marked with ſeveral indented Lines of a dark Colour; the *under Side* and *under Wings d* of a pale Cream Colour.

The CATERPILLAR *e* was of a dark Straw Colour. It was found on a *great Water-graſs*, in the Marſhes near *Rotherhith* the 10th of *May*; it went into the *Ground* the 12th of the ſame *Month*, and changed into a *Chryſalis* expreſſed at *f*, which produced a *Moth* the 13th of *June* following; it was of the ſame Colour of the CATERPILLAR as at *g h* in the *Table*.

XXXIII

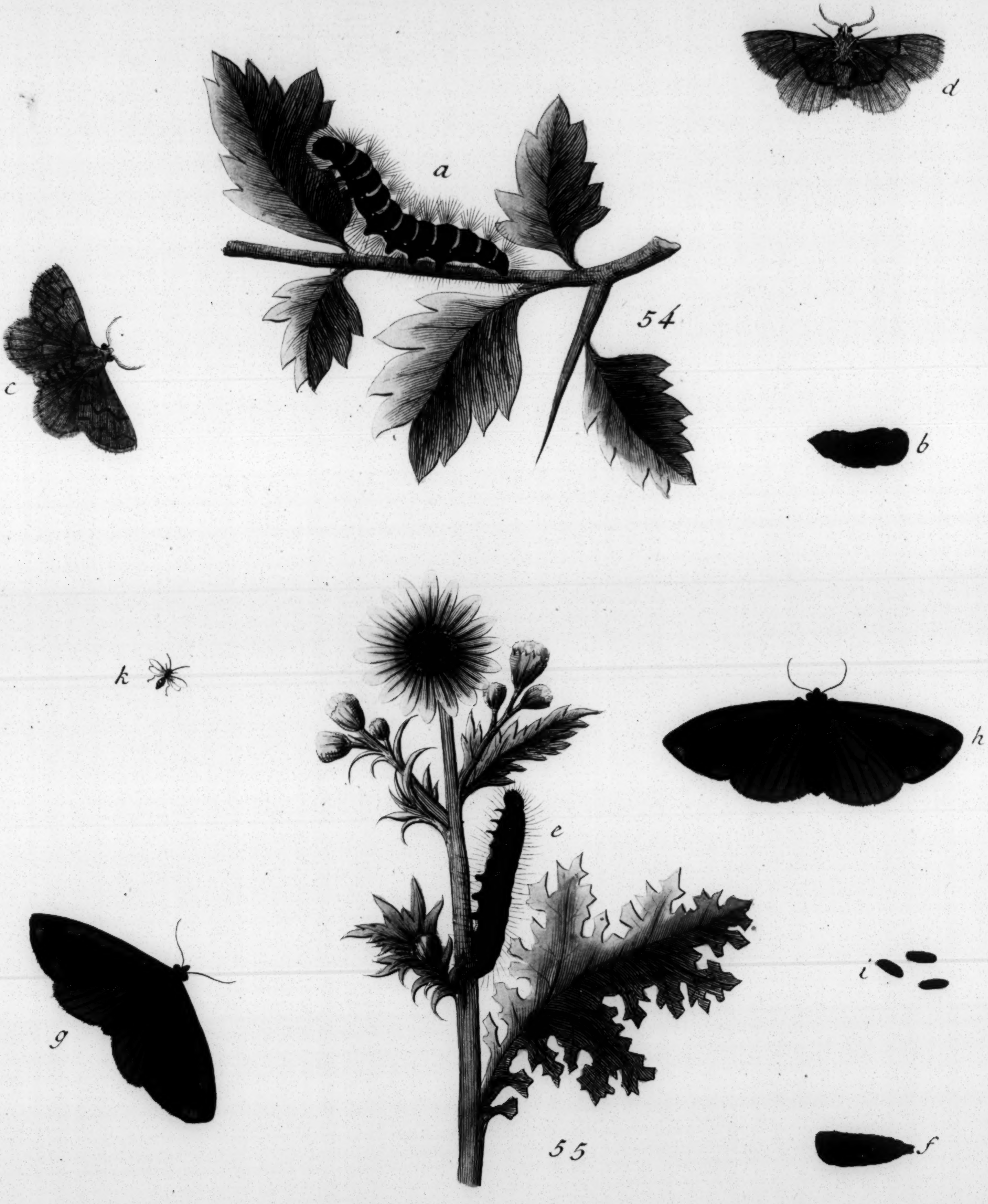


To George Dashwood of Heningham Hall in y^e Coun^{ty}: of Suffolk Esq.
this Plate is humbly Dedicated by Eleazar Albin

E. Albin del.

H. Teraſson, Sculp. London

XXXIV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To the Lady Iekyl
this plate is humbly Dedicated by **Eleazar Albin**.

E. Albin del.

H: Teraſson. Sculp. London,

THE

DESCRIPTION *of the Thirty Fourth* PLATE.

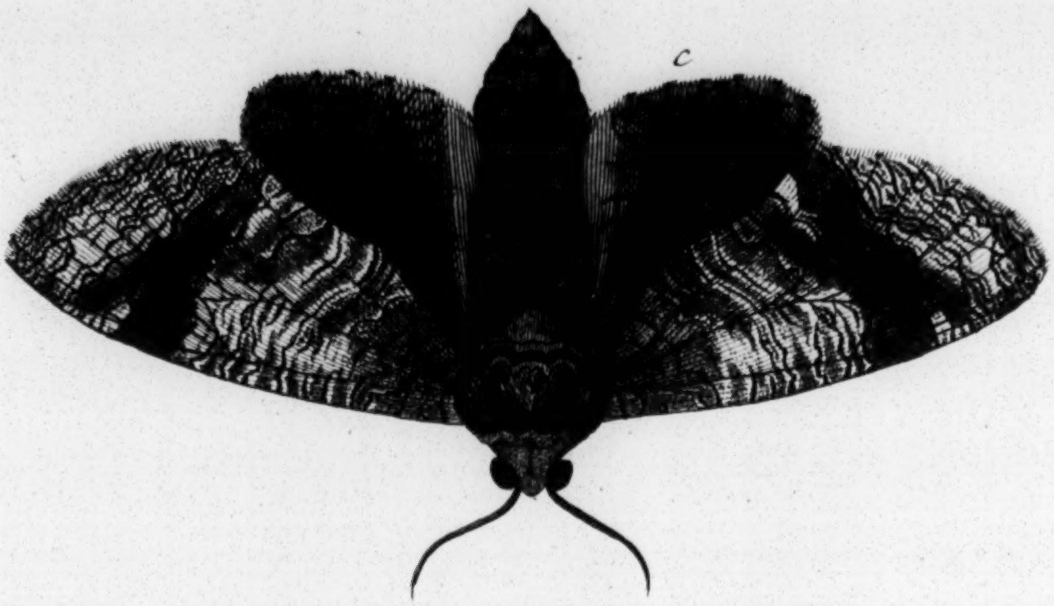
THE CATERPILLAR *a* in this Table was Black intermixed with Spots of Brown divided with Rings of Yellow on the *Back*, the *Belly* was like black Velvet. I found it on the *white-Thorn* about the middle of *May*; it is likewiſe on *black Thorn*, *Haſle* and the *Oak*, on all which they feed very freely: on the 28th of *May* it ſpun up it ſelf on the *Back-Side* of a *Leaf* in a *brown hard Caſe*, and changed into a *Chryſalis*, and the *Moth* came the 20th of *Auguſt*; it was of a light Hair Colour with 3 indented Lines a-croſs the *upper Wings* of a darker Shade; it is expreſs'd at *c d* in the Table.

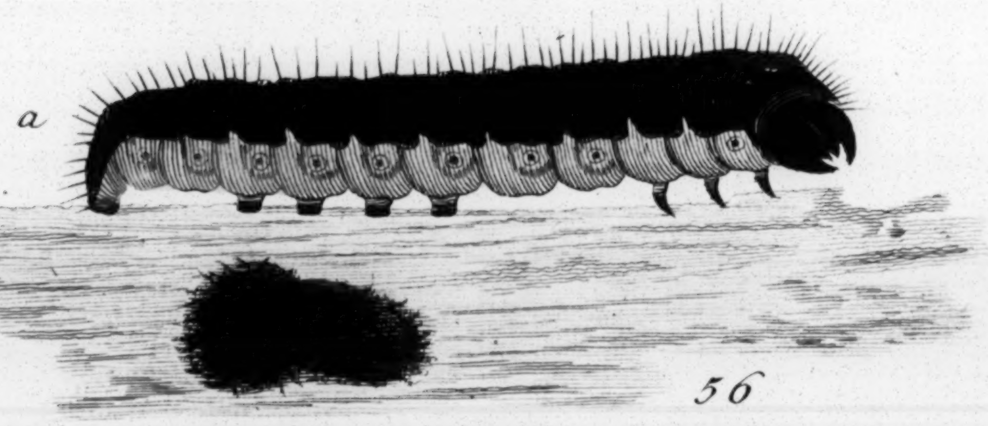
The CATERPILLAR *e* was of a deep Orange Colour with Rings of Black, it was found on the *Ragwort* about the 20th of *June*, on which I fed it; the 27th of the ſame *Month* it went into the *Earth* in the *Box* and changed into *Chryſalis*, and the 17th of *May* following came a *beautiful black* and *red Moth g h*. Some of theſe CATERPILLARS produced ſmall *Maggots*, which ſpun themſelves up in *Caſes* of *white Silk*, and produced the *Ichneumon* expreſſed at *k*. See *Liſter on Goddart page* 61. *N*° 54.

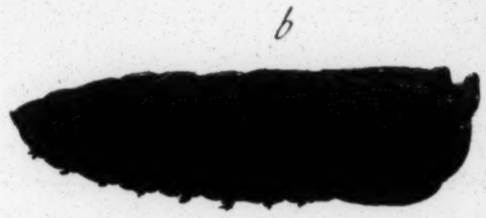
THE

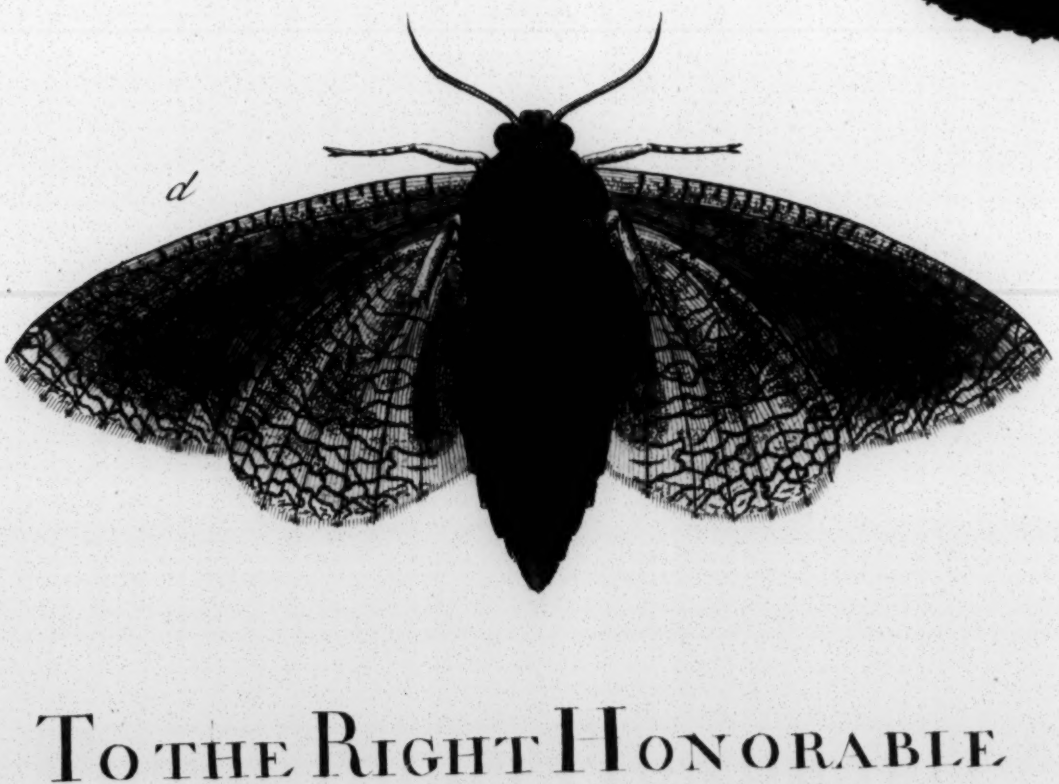
DESCRIPTION *of the Thirty Fifth* PLATE.

THE CATERPILLAR in this Table was of a reddiſh brown Colour on the *Back*; the *Belly* of a Fleſh Colour, his *Feet* and *Nippers* black and very hard and ſharp, by which he penetrates into the very Heart of the *Willow*; I found him in *November*. Theſe CATERPILLARS are ſometimes found in the *Poplar*, *Aſh* or *Elm*; and Dr. *Liſter* ſays *he found it in the Oak.* It has been obſerved by ſome of the Curious, that this miſchievous *Inſect* is 3 Years in its Progreſs from the *Egg* to the *Moth*. I was obliged to keep it in a tin Box with ſome of the *Willow wood*, for he eat his way through a Box of Wood I had put him in before; he changed into a *Chryſalis* about the Beginning of *May*, and about the middle of *June* came the *Moth c d*, of a dark Hair Colour, ſtreaked with White; the *Moth* is to be found on the Bodies of the aforeſaid Trees, toward the latter end of *June*. Theſe CATERPILLARS uſually lay themſelves up in the Holes which they make in Trees, in pretty thick *Webs*; when the *Moth* is ready to come forth, the *Chryſalis* forces its fore part about half an Inch out of the Tree, otherwiſe the *Wings* would be lamed, by bruſhing off that Humidity that is provided for their Growth; to prevent this Inconvenience, Nature has in an extraordinary Manner provided this *Chryſalis* with ſtrong *Spinulæ* round each *Joint*, pointing towards the *Tail*, by which it is enabled to force its fore-part through the *Web*. See *Liſter on Goddart, page* 49. *N*° 39.





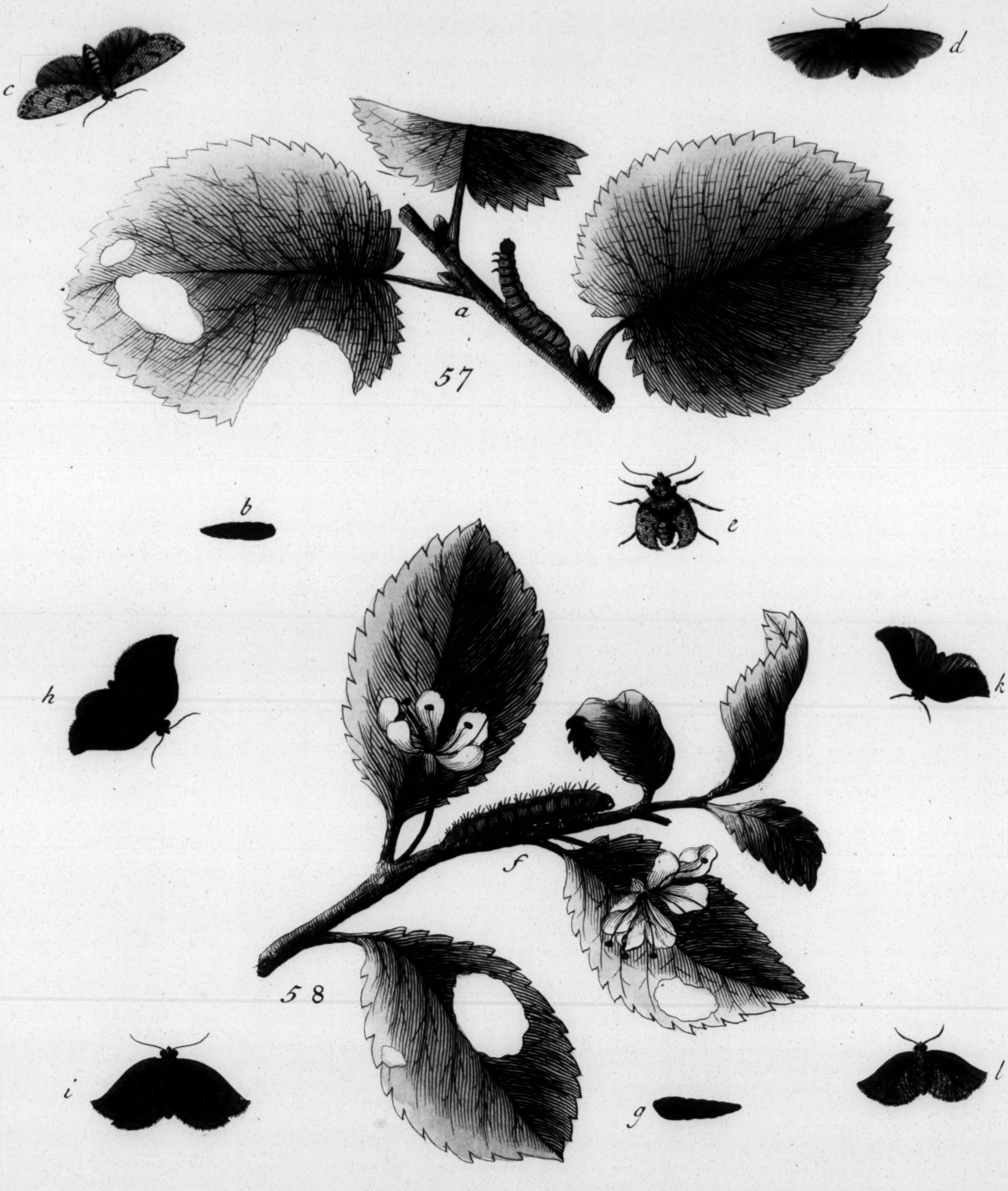




TO THE RIGHT HONORABLE
George Earl of Cardigan
this plate is humbly Dedicated by **Eleazar Albin**.

E. Albin del. *H. Teraſson, Sculp, London.*

XXXVI


c
d
a
57
b
e
h
k
f
58
i
l
g

TO THE RIGHT HONORABLE
Worsley Lady Carteret Baroneſs
this plate is humbly Dedicated by Eleazar Albin.

E. Albin del.

H. Teraſson, Sculp. London.

THE

DESCRIPTION *of the Thirty Sixth* PLATE.

THE CATERPILLAR *a* was of a yellowiſh Green, with a red *Head.* It was taken folded up in the *Leaves* of the *Nut Tree* on the 2d of *September* in a Wood near *Woolwich* in *Kent*, it ſpun it ſelf up the 8th of the ſame Month, and the 8th of *January* following came the *Moth* of a ſtraw Colour mottled with Brown; all the *Females* of this Kind that I have kept had their *Wings* contracted or ſhrivell'd up, as is expreſſed in the Table. I believe it is natural for them to have their *Wings* after that manner for in ſome Kinds, as particularly in Table 89, 90, the *Females* have only the Appearance of *Wings*, and never go from the Place where they lay in *Chryſalies*, but lay their *Eggs* on their very *Web.*

The CATERPILLAR *f* was of a full green Colour, the *Head* dark Red, it was taken roll'd up in the Leaves of the *Plumb Tree* on the 24th of *May*, and on the 30th of the ſame Month it ſpun it ſelf up and changed into *Chryſalis g*; the *Moth* came the 21ſt of *June* following, the *Wings* of a reddiſh Brown, the *Male kl* ſomewhat darker than the *Female hi*, as is expreſs'd in the Table. Theſe CATERPILLARS are very nimble in their Motion both forwards and backwards, as I have obſerved moſt of them are that fold themſelves up in the *Leaves*; if you force them out of their *Leaf* they let themſelves fall by a Thread to the next *Leaf* or *Branch*, by which, when all is quiet, they climb up to their former Habitation.

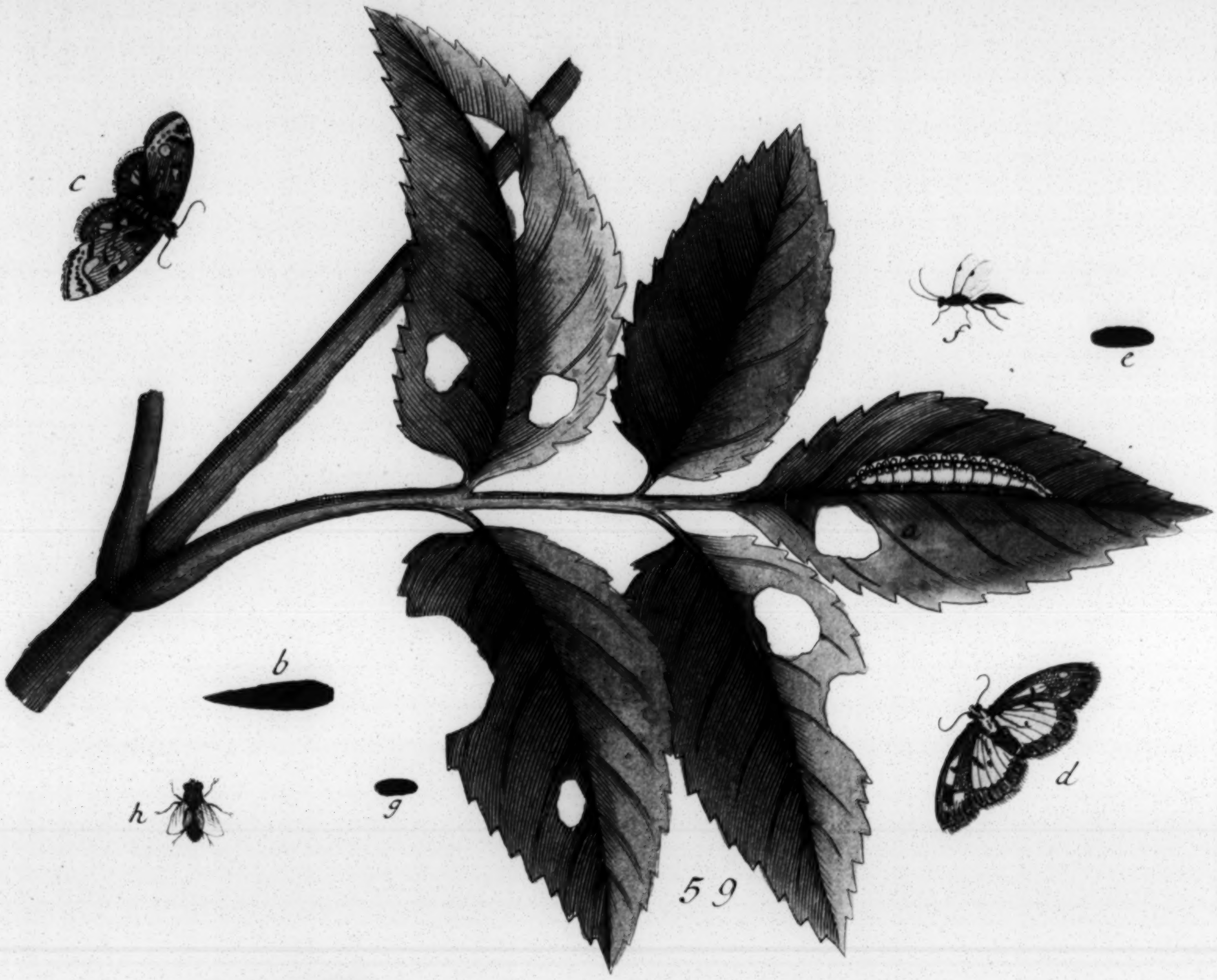
THE

DESCRIPTION *of the Thirty Seventh* PLATE.

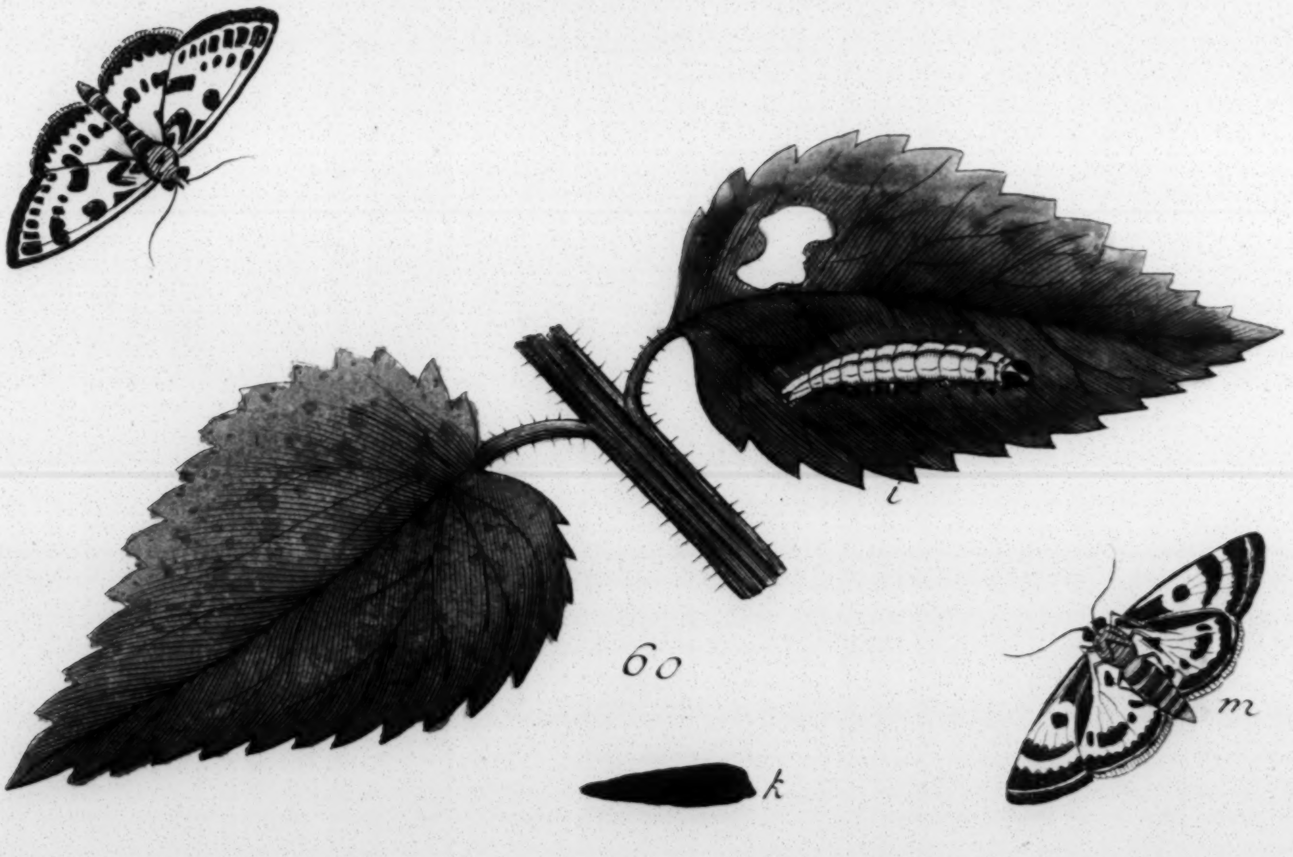
THE CATERPILLAR *a* in this Table was of a pale Green. It was taken in the *Leaves* of the *Elder*, which it had rolled up like a *Wafer* to ſecure its ſelf from Danger, wherein it lies moſt part of the *Day*, feeding commonly in the *Night*: It ſpun it ſelf up the 7th of *Auguſt* in a *Web* to the Side of the *Box* in which I fed it, and remain'd in its CATERPILLAR-*ſtate 'till the Beginning of April*, and then changed into a *Chryſalis b*, and the 15th of *June* came the *Moth c d* of a pale Brown Colour. I had ſome of theſe CATERPILLARS which were *fly-blow'd* by *Ichneumons* and others by a ſmall Sort of the *common Flys*. The *Maggots* of each, ſoon after they came out of the CATERPILLARS, changed into *Chryſalies* at *e g*, in which *State* they lay till the Spring following, and then produced the *Flys f h*. See *Liſter on Goddart, page* 62. *Nº* 55.

The CATERPILLAR *i* is of a pale yellow Green; it was found wrapped up in the *Leaves* of the *Nettle* at the latter end of *May*, after the ſame manner as the *Elder* CATERPILLAR above-mentioned; it changed the 2d of *June* into a *black Chryſalis*, and in 14 Days came a *Moth* at *l m*, White neatly ſpotted with Black; which we commonly call the *Magpie*. See *Liſter on Goddart, page 66. Nº* 61.

XXXVII



59

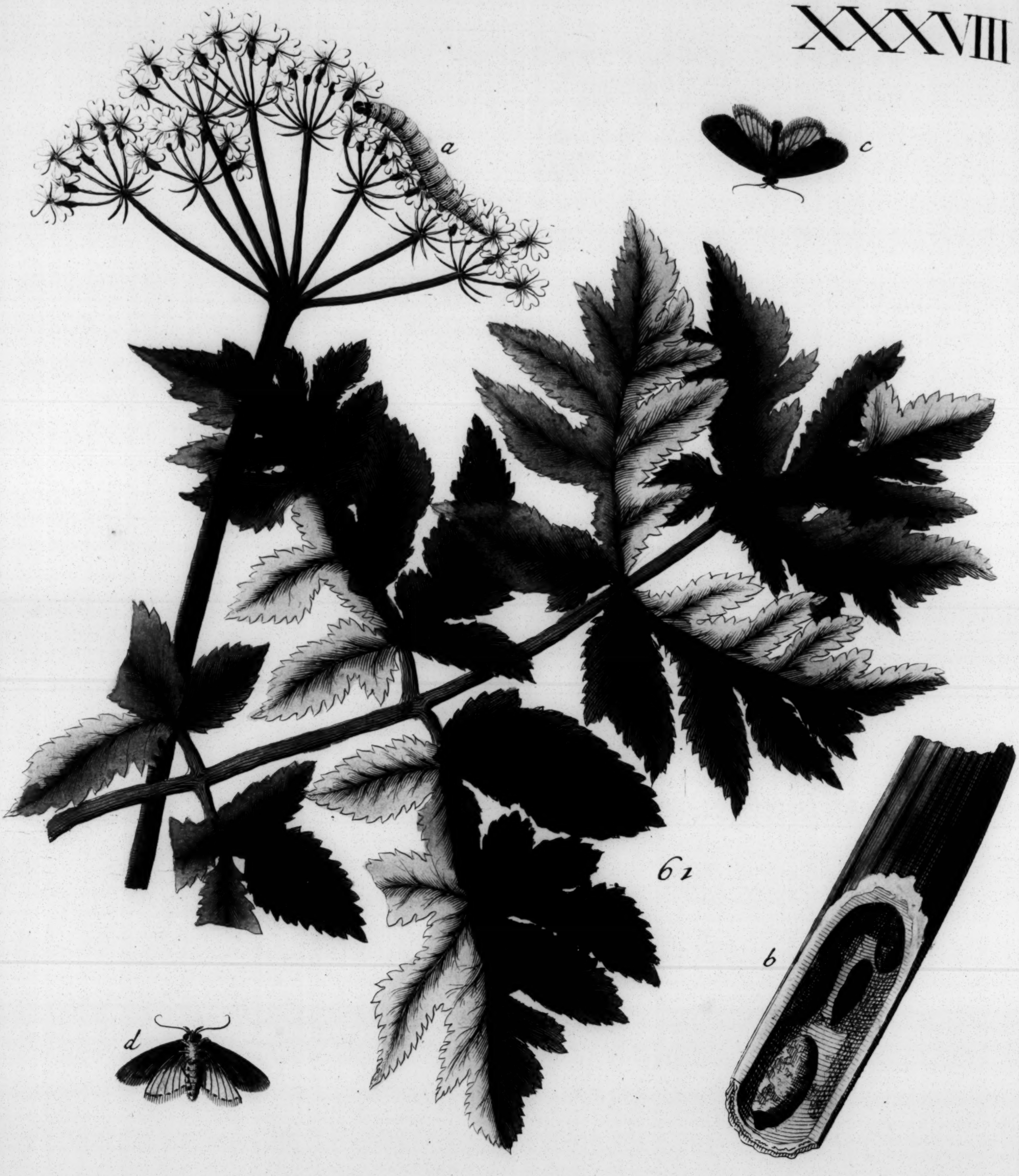


60

To the Reverend Dr Bisse Chancellour of y^{e} Church of Hereford
this plate is humbly Dedicated by Eleazar Albin.

E. Albin del.

XXXVIII



TO THE HONORABLE

Elizabeth Stawell now Mrs. Bromley

this plate is humbly Dedicated by Eleazar Albin

H: Fergusson, Sculp. London.

THE DESCRIPTION *of the Thirty Eighth* PLATE.

THE CATERPILLAR *a* in this *Table* was of a light Green Colour, with ſmall Specks of Black. Mr. *Dandridge* found it feeding on the *Flowers* of *Cow-Parſnep* the 30th of *June*, and fed it on the ſame in a *Box*, in which it ſpun it ſelf up and changed into *Chryſalis b* the 16th of *July*. He went ſome time after to look for more of theſe CATERPILLARS, but could not find any tho' he examin'd ſeveral of the Plants to the very Roots: upon obſerving Holes in ſome of the *Stalks* he cut them, and found many of the *Chryſalies* ſpun up in the hollow part of the *Stalks* pretty near one another, as is expreſs'd at the Letter *b* in the Table. The *Moth c d* came the 12th of *Auguſt*, the *upper Wings* of a dark Olive, the *under Wings* and *under Side* of the *Moth* of a light Hair Colour.

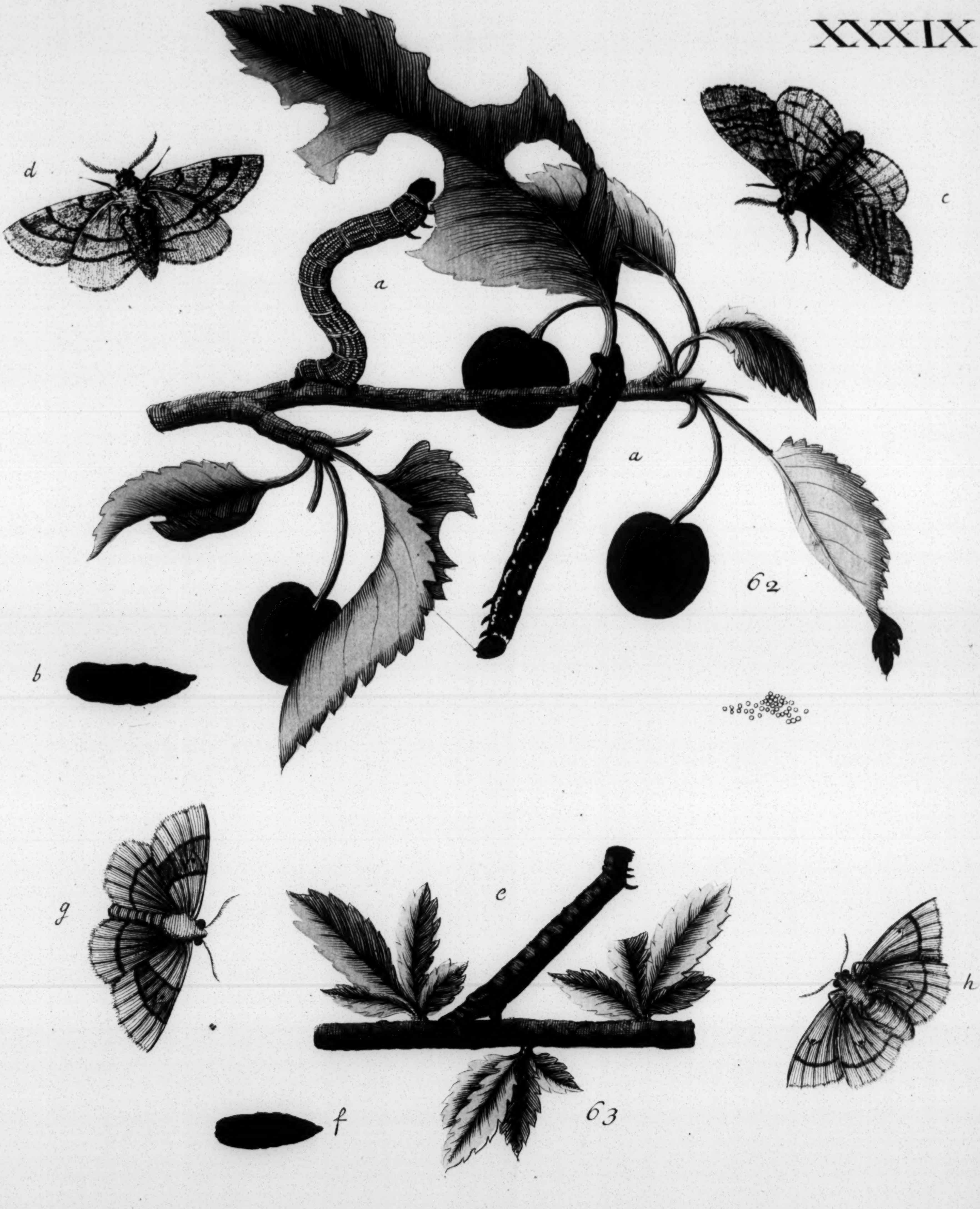
THE

DESCRIPTION *of the Thirty Ninth* PLATE.

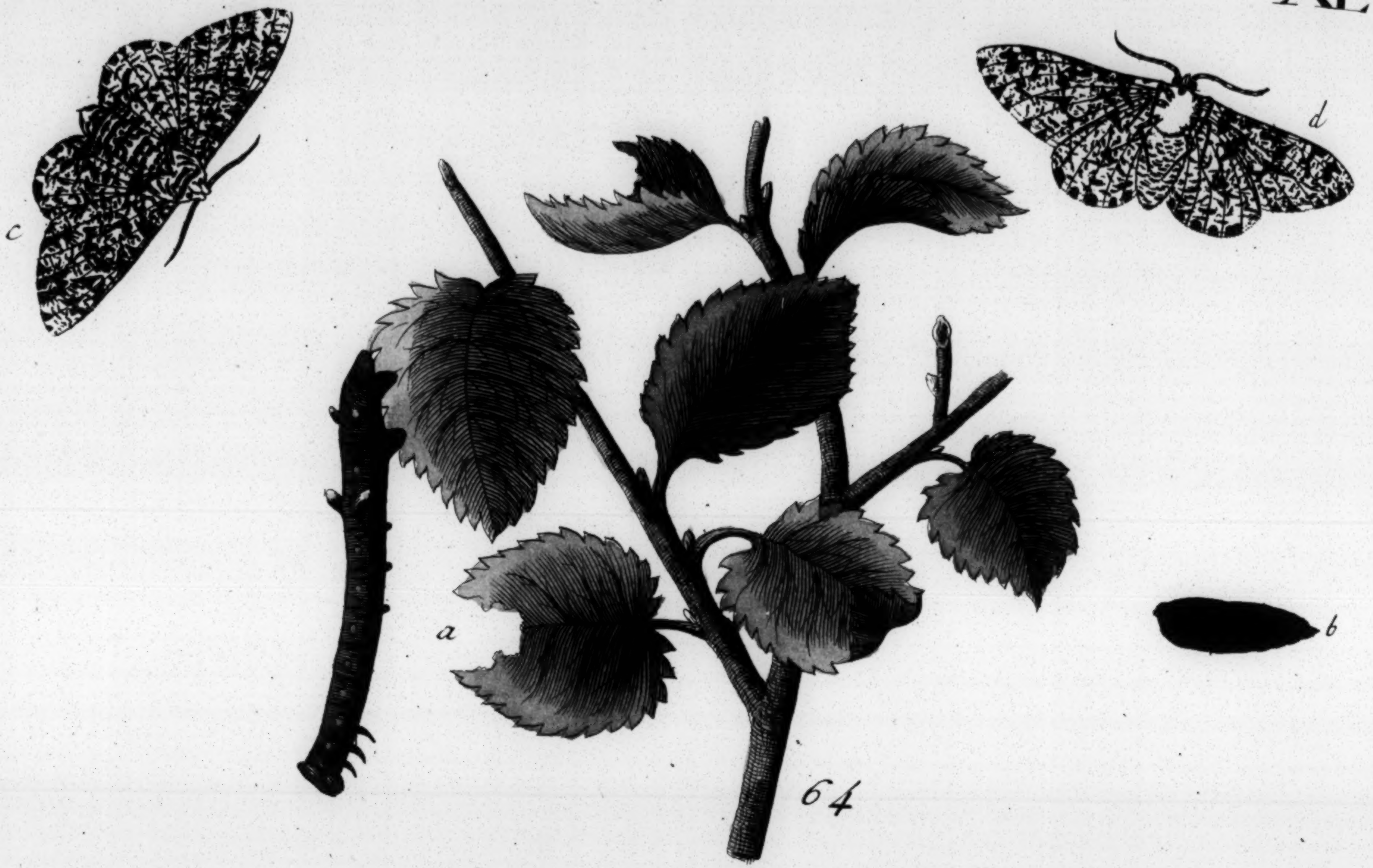
THE CATERPILLARS *aa* in this Table were differing in Colour, the one Yellow with Stripes of a deeper Shade and Spots of Red on each *Joint*, the other dark Red, ſpotted on the *middle Joints* with Yellow, their *Heads* Red with a *Ring* of Yellow round their *Necks*: I took them at the *Beginning of June* on the *Heart-cherry Tree*: they were very numerous on the *Pear*, *Apple*, *Plumb*, and *Lime Trees*, eating ſeveral of them bare; they went into the *Ground* about the *middle of the ſame Month* ſpinning themſelves a *Web*, and changed into a *Chryſalis b*, and the Beginning of *April* came the *Moth c d*, of a dusky Yellow ſtriped and motled with Black. The *Moth* lays her *Eggs* in the Cracks and hollow Places of the *Trees*. Theſe CATERPILLARS are call'd *Loopers*, becauſe in their walking they draw their *Bodies* into the Form of a Loop by bringing their Ends together; theſe and moſt others of this *Kind* have a *Web* coming from their *Mouths* to the *Branch*, by which they convey themſelves from one *Bough* to another at their Pleaſure. The way of deſtroying theſe is by killing the *Moths* when firſt hatched, which are to be found on the *Bodies* of the aforeſaid *Trees*. See *Merian*, *Vol.* 1. *page* 75. *Chap.* 37.

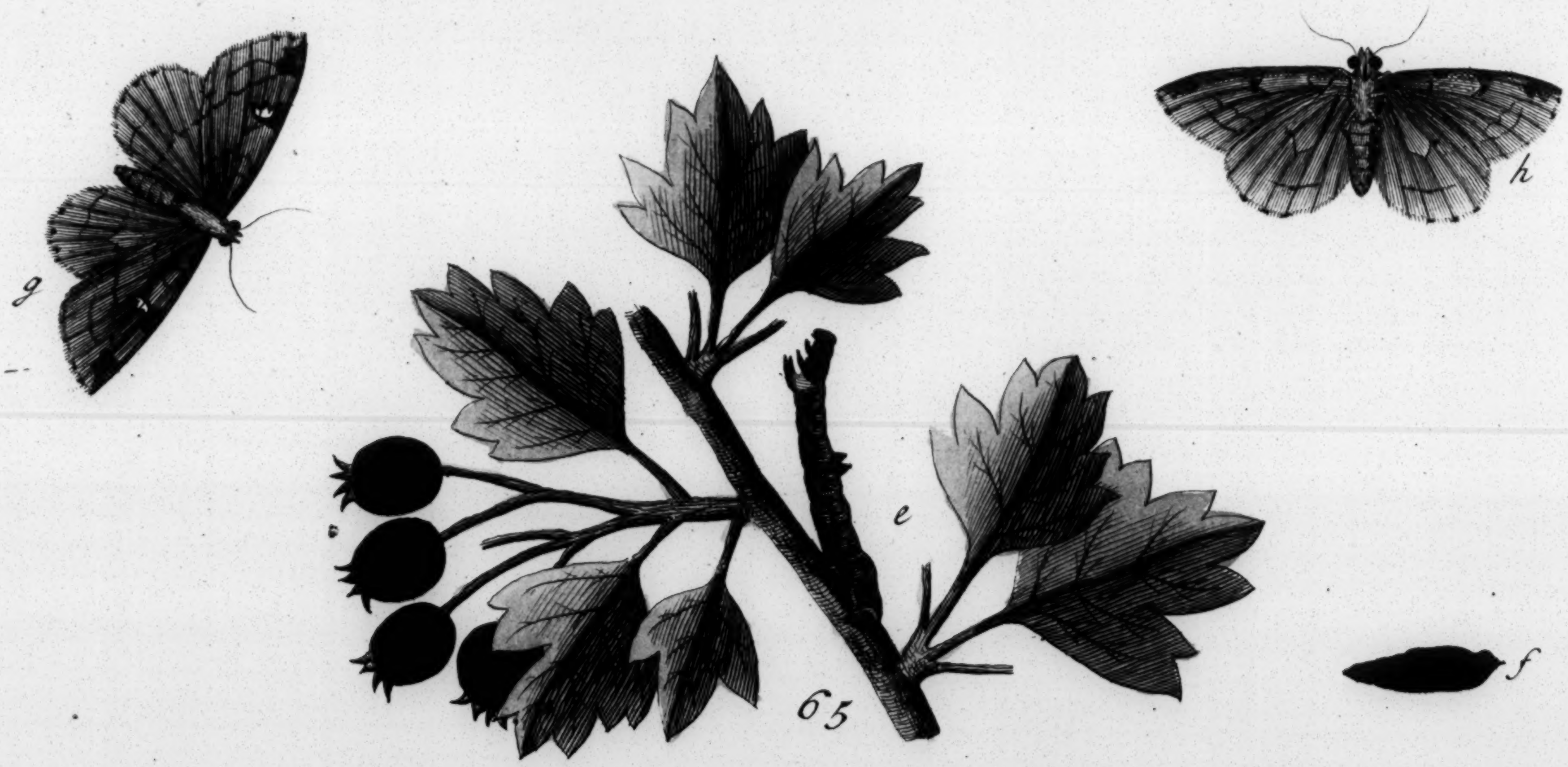
The CATERPILLAR *e* was of the ſame Colour with the *Older Branches* of the Tree ſo as ſcarcely to be diſcerned from the *Wood*. It was found the 12th of *May* on the *Black-thorn*: I fed it 'till the 24th of the ſame *Month*, at which time it went into the *Ground* and changed into *Chryſalis f*, and the 11th of *Auguſt* following came the *Moth g h*, of a pale Buff, having a broad Cloud of a darker Colour a-croſs the *middle* of the *upper Wings*, and Spots of the ſame round the *Edges* both of the *upper* and *under Wings*.

XXXIX



TO THE RIGHT HONORABLE
Mary Bentinck Counteſs Dow^{r}. of Eſsex
E. Albin del. *This plate is humbly Dedicated by* Eleazar Albin. *H. Teraſson, ſculp, Londo.*





TO THE RIGHT HONORABLE
Elizabeth Butler Counteſs Dow^{r}. of Derby
this plate is humbly Dedicacted by Eleazar Albin,

E. Albin del.
H. Terasson, Sculp. London.

THE

DESCRIPTION *of the Fortieth* PLATE.

THE CATERPILLAR *a* in this Table was of an Olive Green Colour with red and yellow Spots on each *Joynt*, the *Head* pale red, it had four *Riſings* or *Bunches* tipt with Yellow on the *Back* near the *Hinder-part*. It was found feeding on the *Elm* in the Beginning of *September*. I fed it till the 26th of the ſame Month; it then went into the *Earth* in the Box and changed into a *Chryſalis b*, of a dark Red Colour, and the 27th of *May* following came forth the *Moth* expreſs'd at *c d*, being White motled with Black.

The CATERPILLAR *e* was finely marked with divers Colours, having *Riſings* or *Bunches* on the *middle* of its *Back*. It was found on the *White-thorn* in *September*, and the 17th of the ſame *Month* it ſpun it ſelf up in the *Leaves* and changed into a *Chryſalis*, and remained in that *State* till the Beginning of *April*, at which time came forth a yellow *Moth* marked as at *g h* in the *Table*.

[illegible]

[illegible] of the [illegible] and [illegible]

Note marked [illegible]

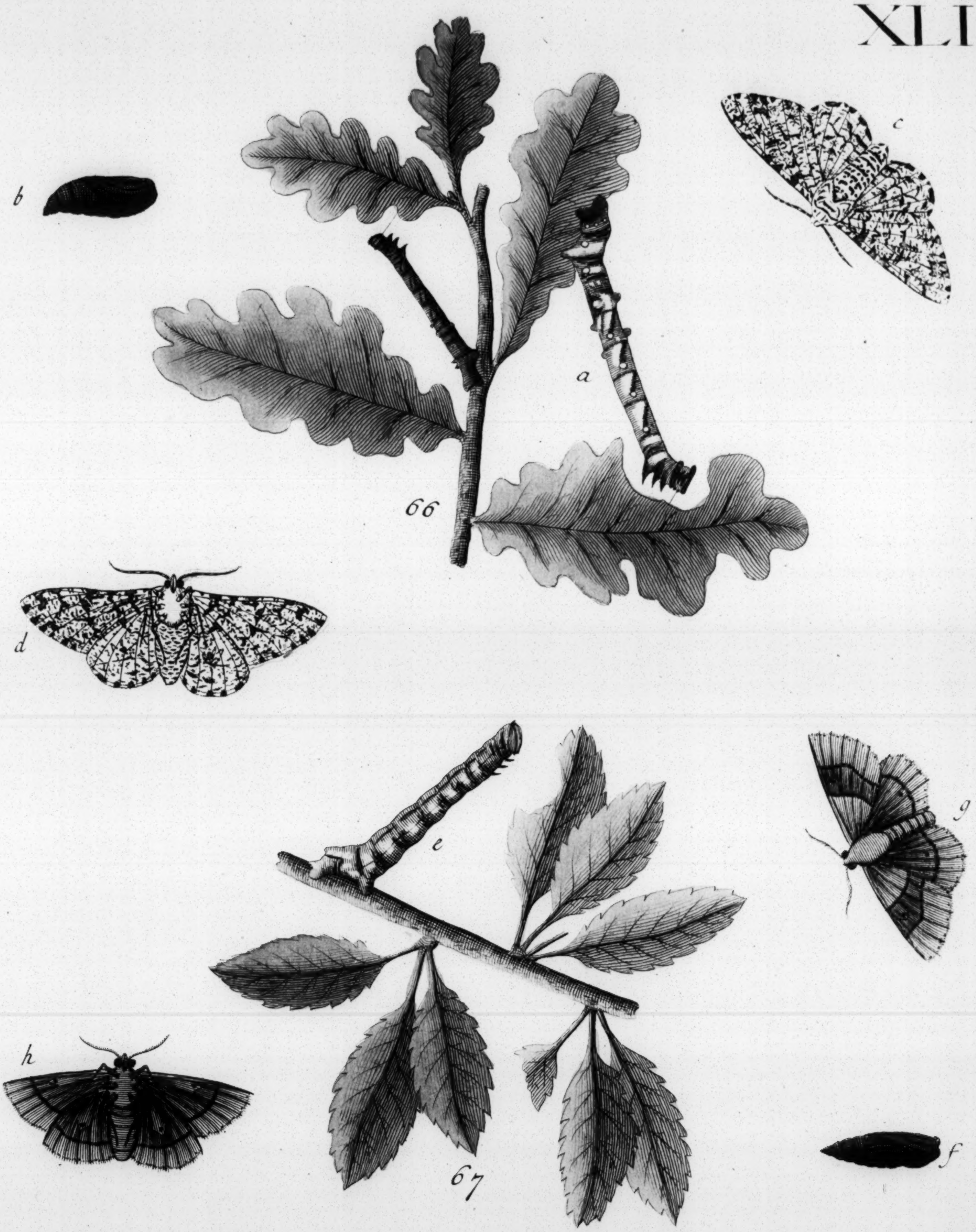
THE

DESCRIPTION *of the Forty Firſt* PLATE.

THE CATERPILLAR, *a*, in this Table was found on the *Oak* on the 19th of *June* near *Highgate*, it was about the bigneſs of the ſmaller Figure in the Table, and of a brown Colour; after ſome time it changed its *Skin*, and grew to the Bigneſs of the largeſt expreſs'd at *a*, it was of a pale browniſh Aſh Colour, with four *Riſings* or *Bunches* on the *Back*, the hindmoſt of which was tipt with Red, as were alſo the *Holders* next the *Tail*; it went into the *Earth* the 10th of *July*, and changed into a *Chryſalis* of a dark red Colour; where it remain'd till the latter end of *May*, at which time came a *Moth* very like that in the foregoing Table. *Q.* Whether they may not be *Male* and *Female*.

The CATERPILLAR, *e*, in this Table was of a pale Olive Colour, it was taken on the *Black-thorn*, at the Beginning of *May*, and the 16th of the ſame Month it went into the *Earth*, and with the ſame work'd it ſelf a *Caſe*, and changed into a *Chryſalis*, and on the 22d of *June* following came a *Moth* of a pale Buff Colour, having a broad Cloud of a darker Colour croſs the middle of the *upper Wings*, and Spots of the ſame round the *Edges* of the *upper* and *under Wings*.

XLI

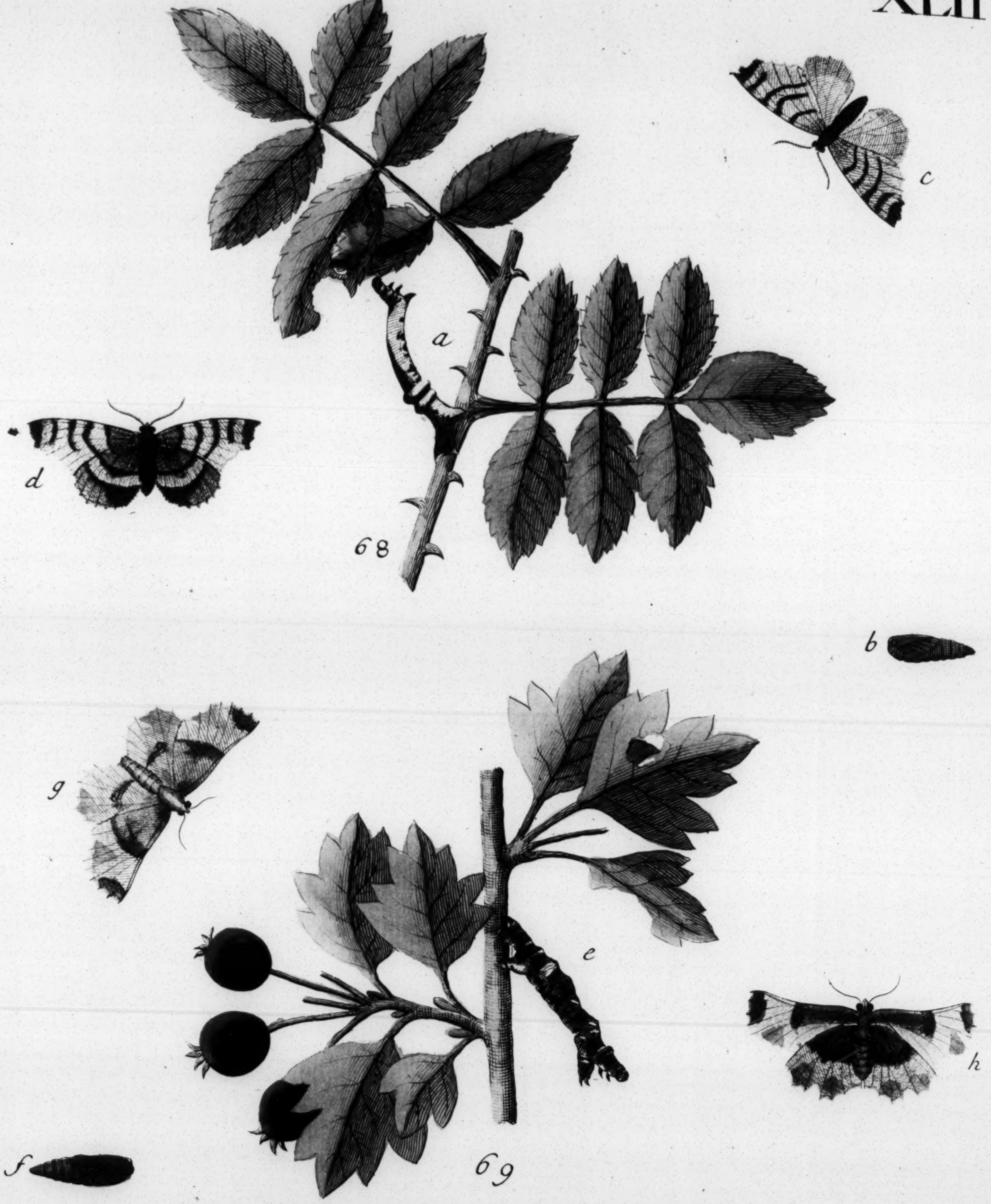


TO THE RIGHT HONORABLE
The Lady Arthur Somersett
this plate is humbly Dedicated by Eleazar Albin

E. Albin del.

H·Teraſson, Sculp. Londo

XLII


c
a
d
68
b
g
e
h
f
69

TO THE HONORABLE
Edward Southwell Eſqʒ.
this plate is humbly Dedicated by **Eleazar Albin.**

E. Albin del. *H. Teraſson Sculp. London.*

THE

DESCRIPTION *of the Forty Second* PLATE.

THE CATERPILLAR, *a*, in this Table was of a pale Cream Colour, ſhadowed on its *Back* with Brown and ſpotted with Red. It was found on the *Wild-Roſe* between *Iſlington* and *Highgate*; the *Head* was much ſmaller than uſual; it ſpun it ſelf up between a *Leaf* and the *Side* of the *Box* on the 22d of *June*, and changed into a *Chryſalis*, *b*; and the 10th of *July* came a *Moth* at *c*, *d*, of a fleſh Colour ſtreaked with Brown.

The CATERPILLAR, *e*, was of a muddy Green Colour, motled with darker Colours like the *Bark* of a *Tree*; the *hindermoſt Feet* of this CATERPILLAR are remarkably longer than in moſt others that I have obſerved, which it draws in or thruſts out as it has occaſion. It was found on the *White-thorn* the 10th of *September*, and on the 24th of the ſame *Month* it ſpun it ſelf up in the *Leaves*, and changed into *Chryſalis*, *f*; and the 15th of *May* came a Beautiful clouded *ſcallop-winged Moth* at *g*, *h*, in the *Table*.

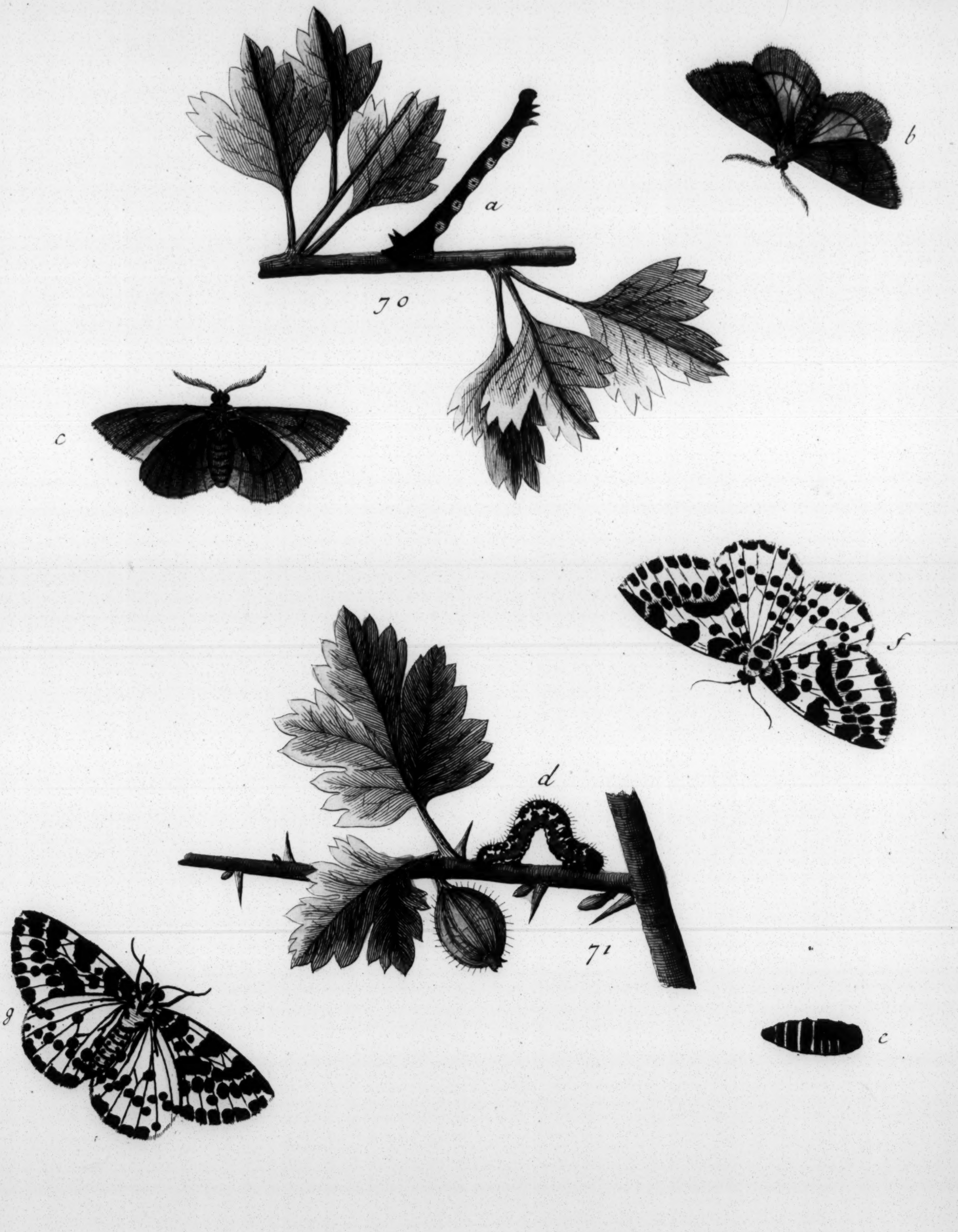
THE

DESCRIPTION *of the Forty Third* PLATE.

THE CATERPILLAR, *a*, in this Table was Brown, with five large light-coloured Spots on its *Sides*, the *Head* Red, and near its *Tail* it had two *Riſings* ending in Points of the ſame Colour. It was taken on the *White-thorn* the 8th of *May* near *Lewſham* in *Kent*. I fed it 'till the 23d of the ſame *Month*; it then went into the *Earth* in the *Box*, and changed into *Chryſalis*, and the 26th of *September* came a *Moth*, *b*, *c*, of a pale red and yellow Colour.

The CATERPILLAR, *d*, in this *Table* was of a pale Cream Colour ſpotted with Black and Red. It is commonly found on the *Gooſe-berry* and *Currant Trees* at the Beginning of *May*, and the 22d of the ſame *Month* it ſpun up its ſelf, and changed into a red *Chryſalis* with *Rings* of Yellow; and the 12th of *June* came forth *a black and white Moth intermixt with Yellow*; the *Eggs* of this *Moth*, ſoon after they are laid, hatch, and the *young* CATERPILLARS live all *Winter* in Places of Shelter, and in the Spring begin to feed as ſoon as the *Buds open*; the way to preſerve the *Trees* from thoſe CATERPILLARS is by cleanſing and ſhaking them when the *Snow* is upon the *Ground*. See *Liſter on Goddart, page* 13. *Nº* 9. *Merian Vol.* 1. *Chap.* 29.

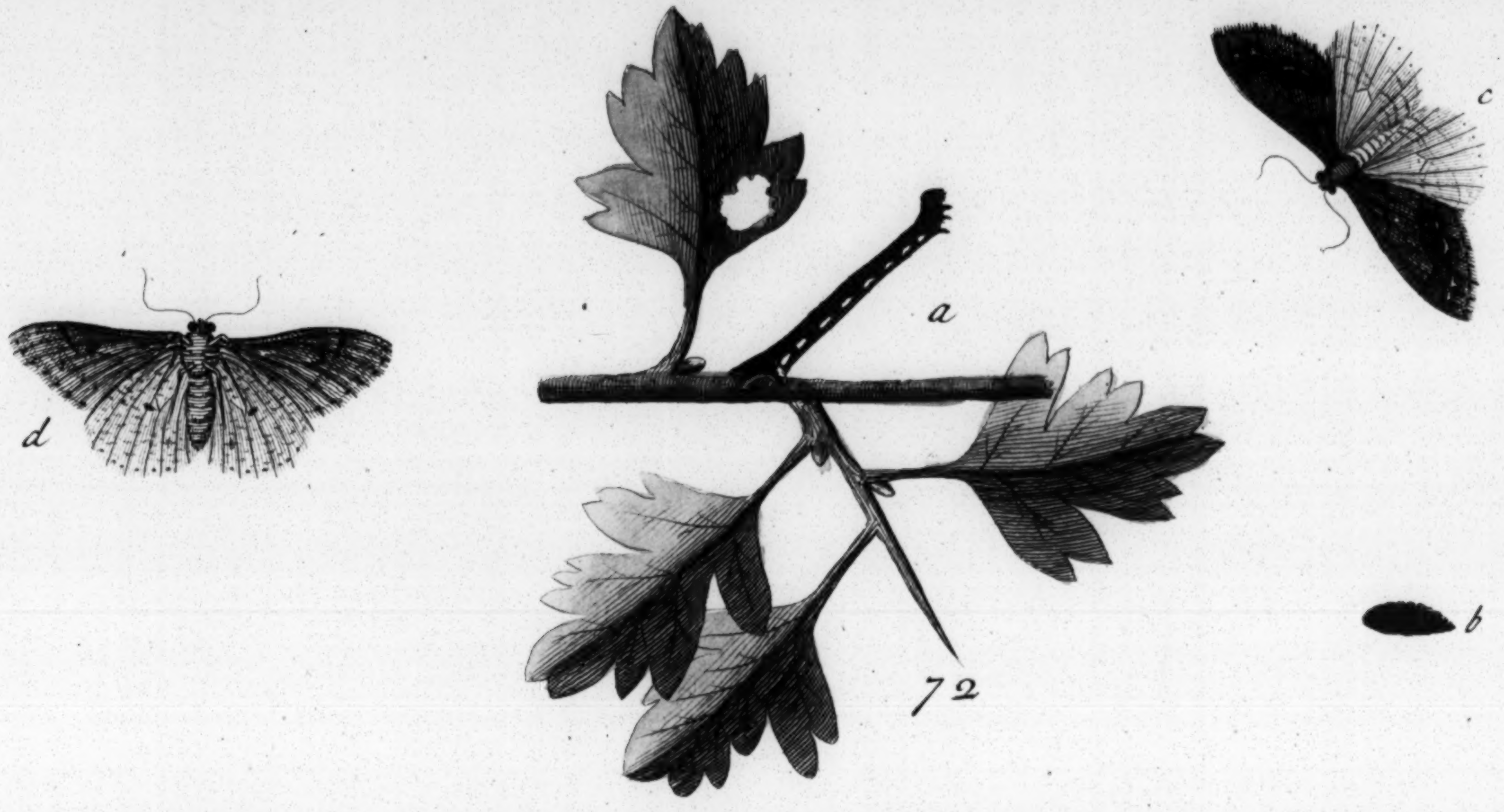
XLIII

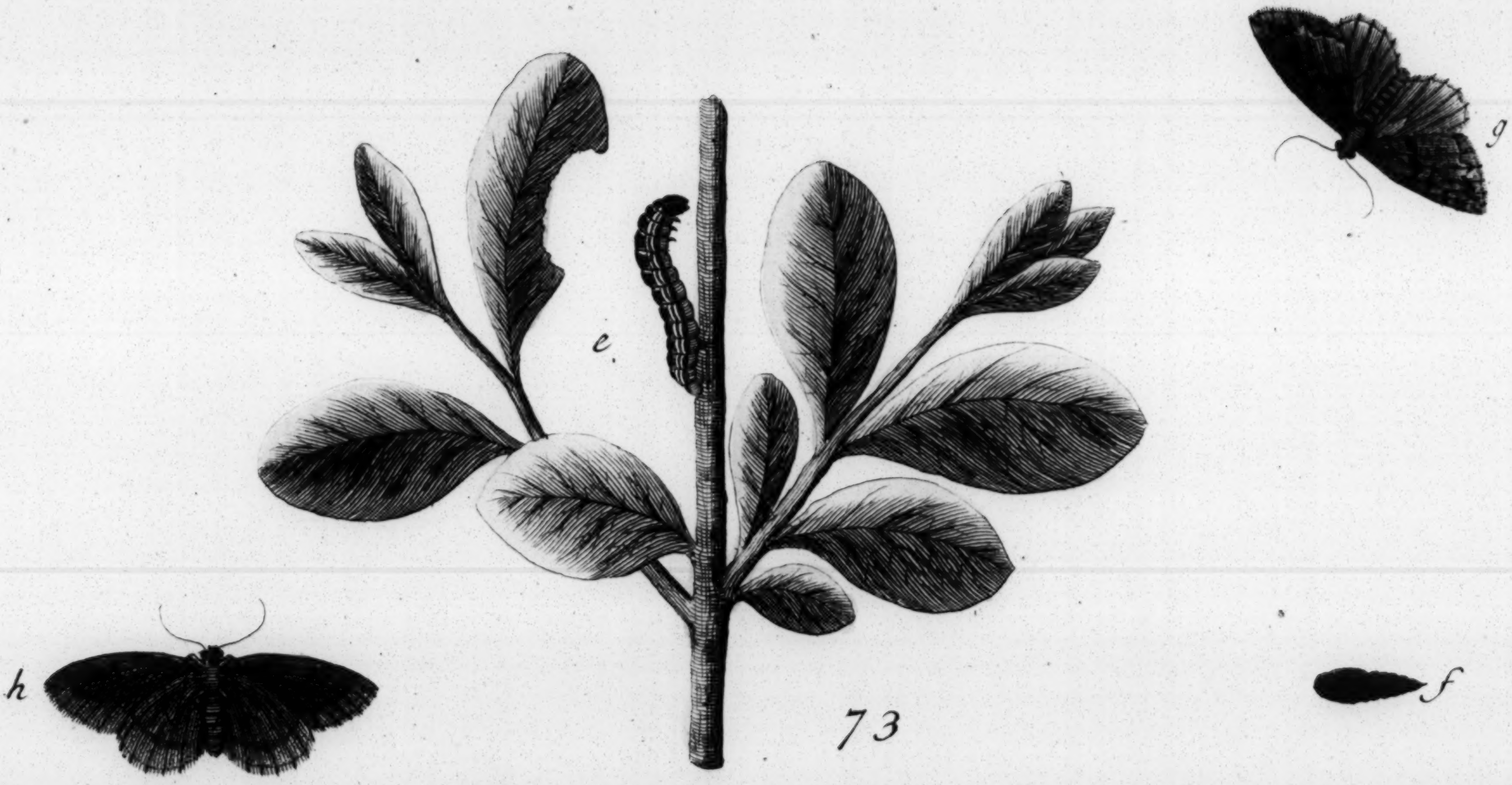

a
b
70
c
f
d
71
g
c

To Mrs Bovey of Flaxley
this plate is humbly Dedicated by Eleazar Albin.

E. Albin del.

H: Fergusson, Sculp, London.





TO THE RIGHT NOBLE
The Marqueſs of Tullibardine
this plate is humbly Dedicated by Eleazar Albin.

E Albin del.
H. Terasson. Sculp. Londoni

THE

DESCRIPTION *of the Forty Fourth* PLATE.

THE CATERPILLAR, *a*, in this Table was of a dark Colour ſpotted with White, with a red *Head*, (I had ſome of this Sort almoſt all White, others light Aſh Colour, others almoſt Black.) It was taken on the *White-thorn* the 24th of *May* near *Hornſey-wood.* I fed it till the 12th of *June*, at which time it went into the *Ground*, and changed into a *Chryſalis*, *b*, and at the *Beginning of April* came the *Moth*, *c*, *d*, of a pale yellowiſh Colour, ſhadowed and ſpotted with deeper Shades of the ſame.

The CATERPILLAR, *e*, was Fleſh Colour, the *Head* dark Brown, with ſeveral Streaks and Spots of the ſame on the *Back* and *Sides*. It was taken on the *Sallow* the 15th of *May*. I fed it till the 13th of *June* it then went into the *Ground*, and changed into a *Chryſalis* at *f*; the *Moth*, *g*, *h*, came the 9th of *July* the *upper Wings* of a dark Yellow, the *under Wings* and *under Side* of a light Hair Colour.

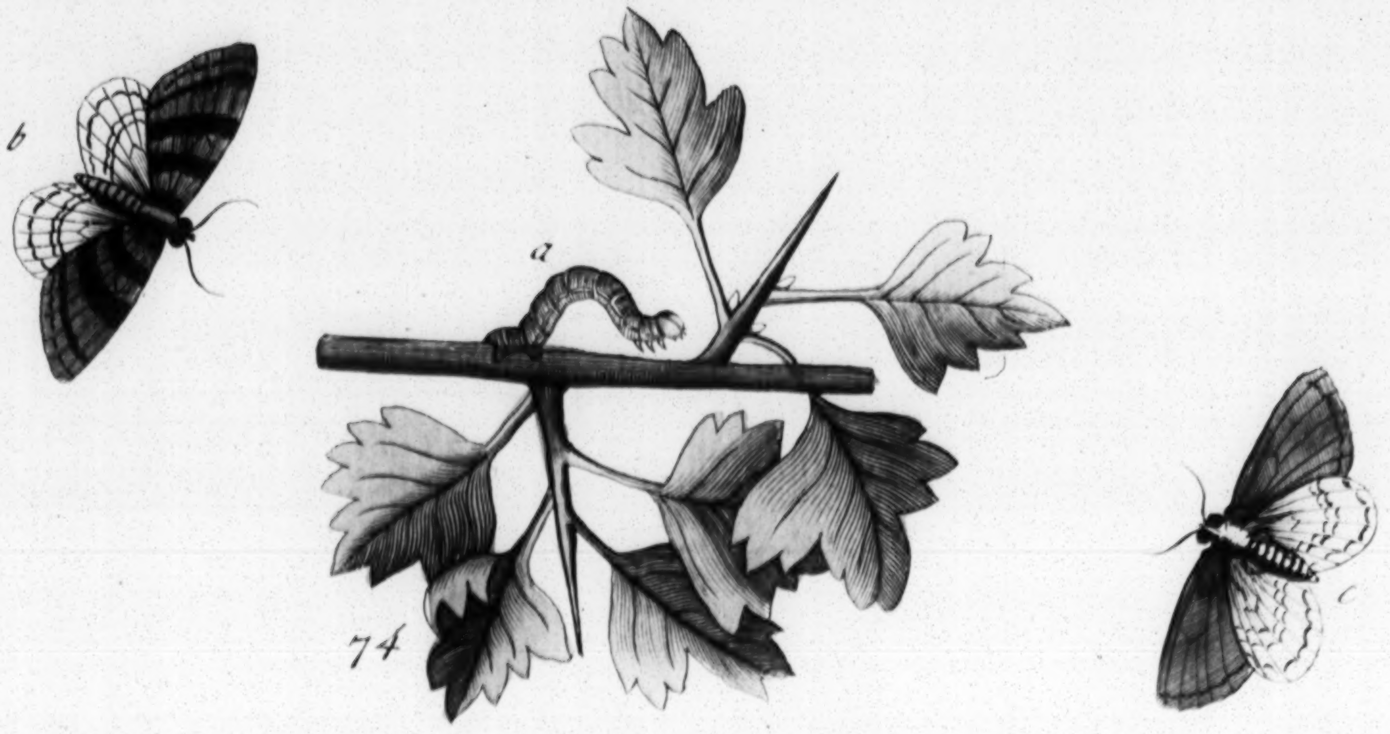
THE

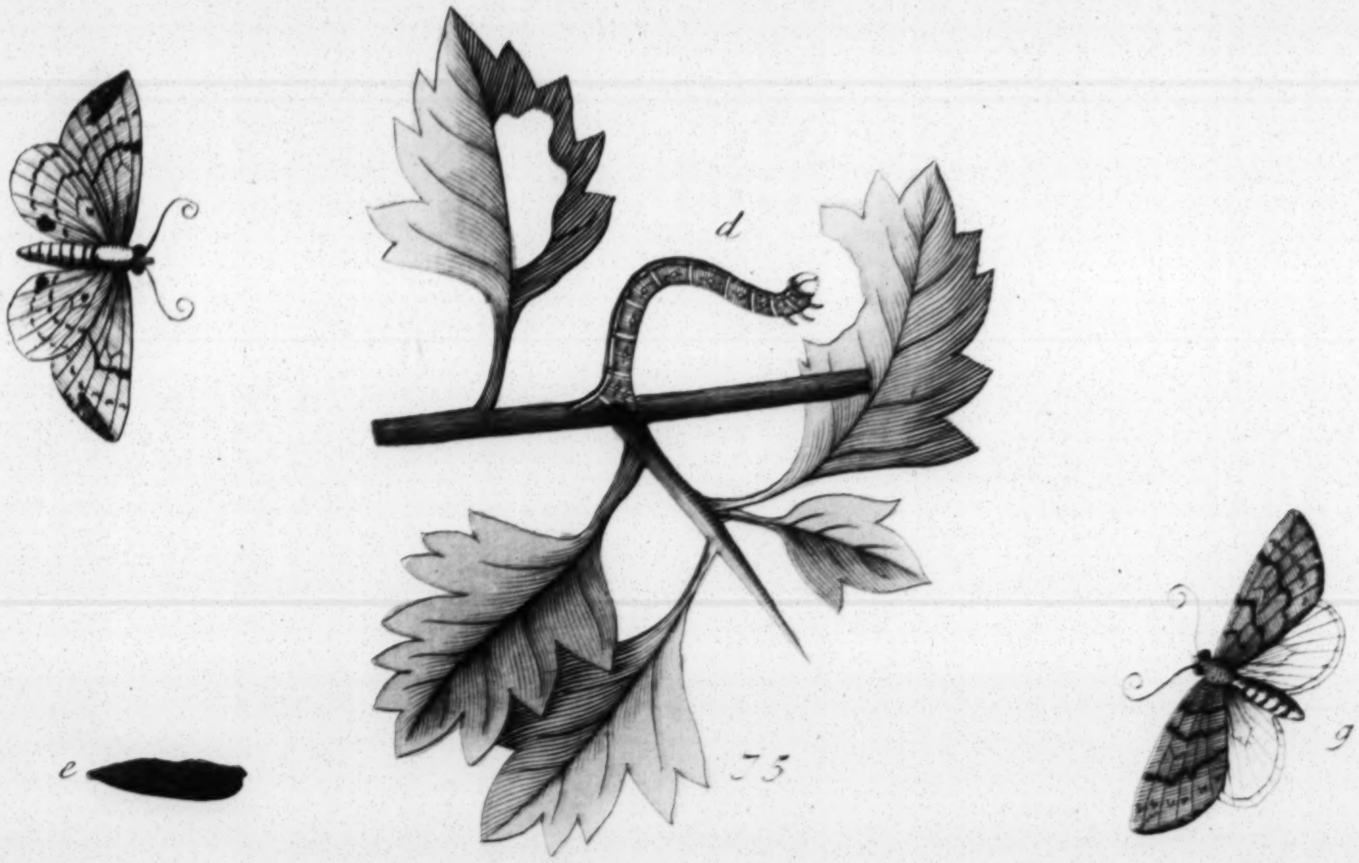
DESCRIPTION *of the Forty Fifth* PLATE.

THE CATERPILLAR, *a*, in this Table, was of a Sea-green. It was taken on the *White-thorn* the 12th of *May* near *Peckham*, and the 14th of the ſame *Month* it went into the *Ground*, and changed into a *Chryſalis*; and the *Moth* came forth the 25th of *September*, the *upper Wings*, *b*, were of a light Brown, with dark Stripes a-croſs them, the *under Wings* *c* of a pale Yellow.

The CATERPILLAR, *d*, was of a yellowiſh Green. It was found feeding on the *White-thorn* near *Eltham* in *Kent* on the 30th of *May*, and the 10th of *June* it ſpun up between the *Leaves*, and changed into a *Chryſalis*, and the *Moth*, *f*, *g*, came forth the 26th of the ſame Month.

XLV



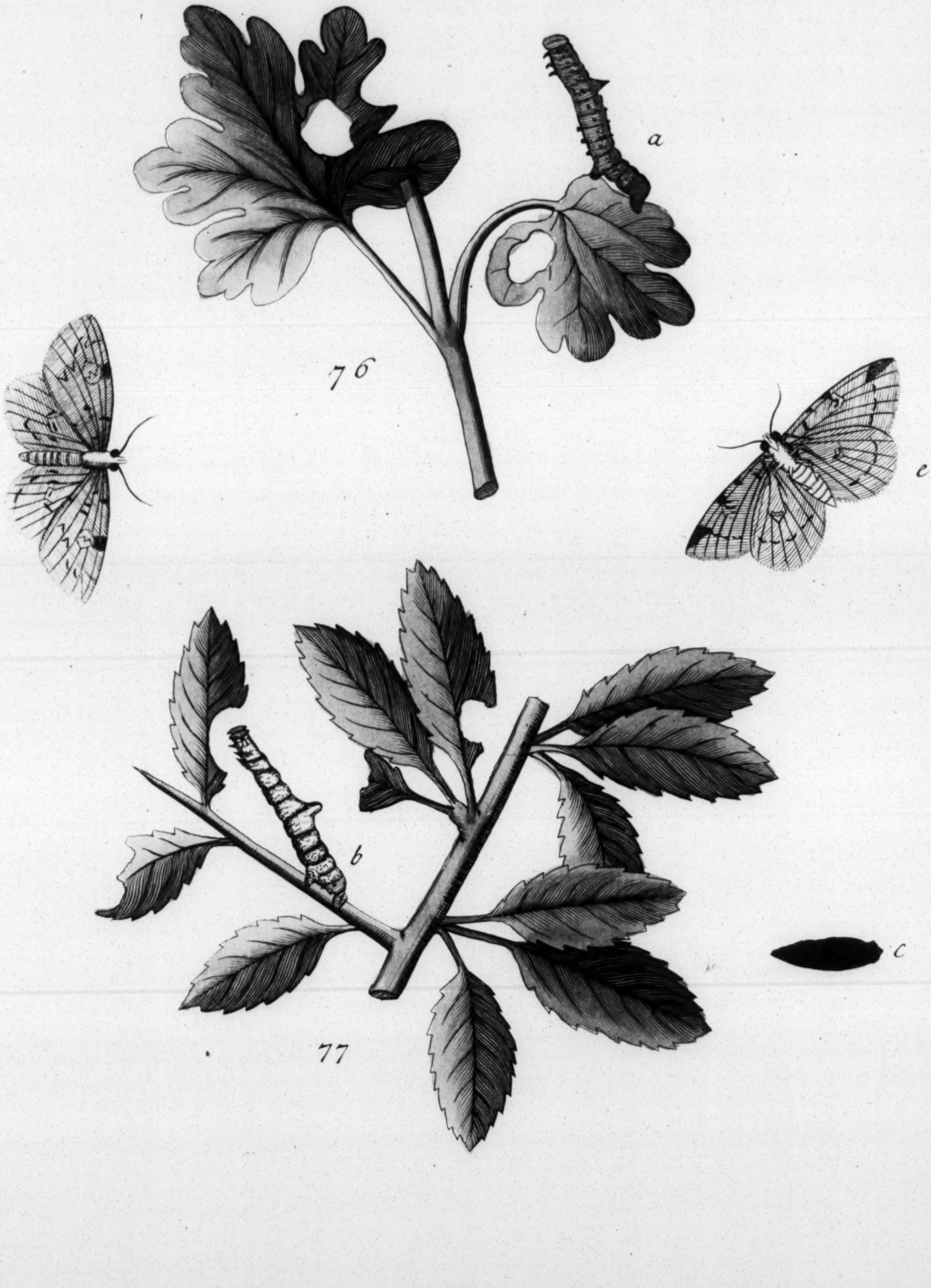


To Mrs Mary Goupy

this plate is humbly Dedicated by Eleazar Albin.

E. Albin del.

XLVI



To Mrs. Howland
this plate is humbly Dedicated by Eleazar Albin

Albin del.

THE

DESCRIPTION *of the Forty Sixth* PLATE.

THE CATERPILLAR, *a*, in this *Table* was of a dark Green Colour, having a *Bunch* or *Riſing* on the *middle* of its *Back*, and three ſmall *Bunches* on each *Side* near the *firſt Holders*. It was taken feeding on the *Maple* near *Highgate*; about the middle of *September*, and the 24th of the ſame Month it ſpun it ſelf up to the Side of the *Box*, and changed into a *Chryſalis*, remaining in that State 'till the 12th of *February*, at which time came forth a Beautiful yellow *Moth*, *b*, *c*.

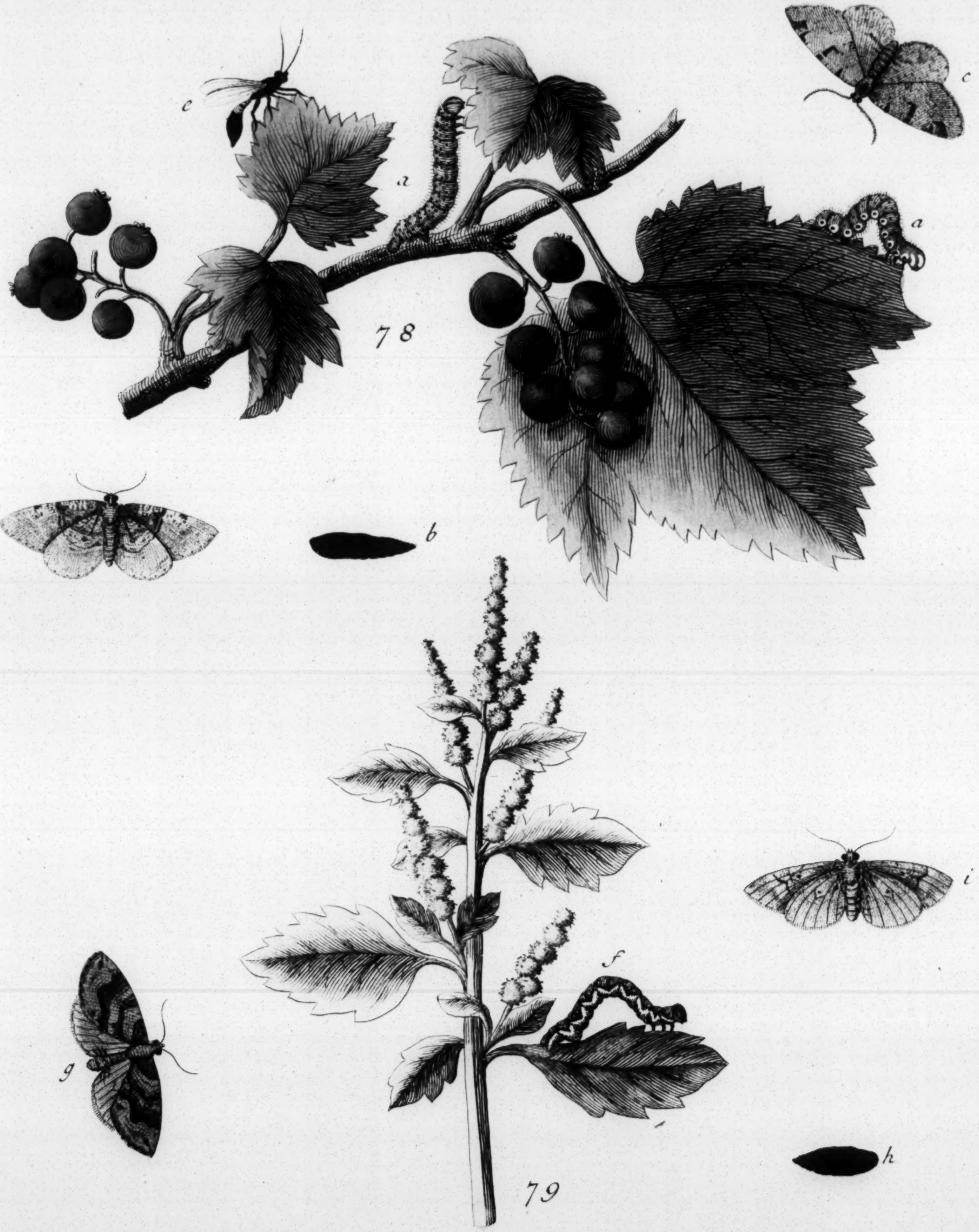
The CATERPILLAR, *b*, was almoſt of the ſame Colour with the Twigs of the *Black-thorn*, on which it was taken the 21ſt of *May*, and on the 28th of the ſame *Month* it ſpun it ſelf up in a *white Web* in the *Leaves*, and changed into a *Chryſalis*, *c*; the 21ſt of *June* it produced the ſame *Moth* as above.

THE DESCRIPTION *of the Forty Seventh* PLATE.

THE CATERPILLARS, *a a*, in this Table were of different Colours, ſome Green and Yellow, others Purple and Yellow. They were found on the *Currant Trees* at the Beginning of *April*, I fed them till the 22d Day of *May*; at which time they went into the *Ground* and changed into *Chryſalies*, and on the 17th of *June* came forth a *Moth* of a Ruſſet Colour ſtreaked and ſpotted with Black in the *upper Wings*; one of the CATERPILLARS produced the *Ichneumon*, *e*; theſe CATERPILLARS are hatched at the latter end of the Year and live all Winter. See *Liſter on Goddart page* 19. *N*º 12. *Merian*, *Vol.* 1. *Chap.* 25.

The CATERPILLAR, *f*, was very elegantly marked with divers Colours. It is often found on the Garden and Wild *Orach* at the latter end of *Auguſt*. I fed it till the 16th Day of *September*, at which time it went into the *Earth* in the *Box*, and changed into a *Chryſalis*, and on the 11th of *July* following came the *Moth* of the Colour of a wither'd *Leaf*.

XLVII


e
a
c
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78
d
b
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i
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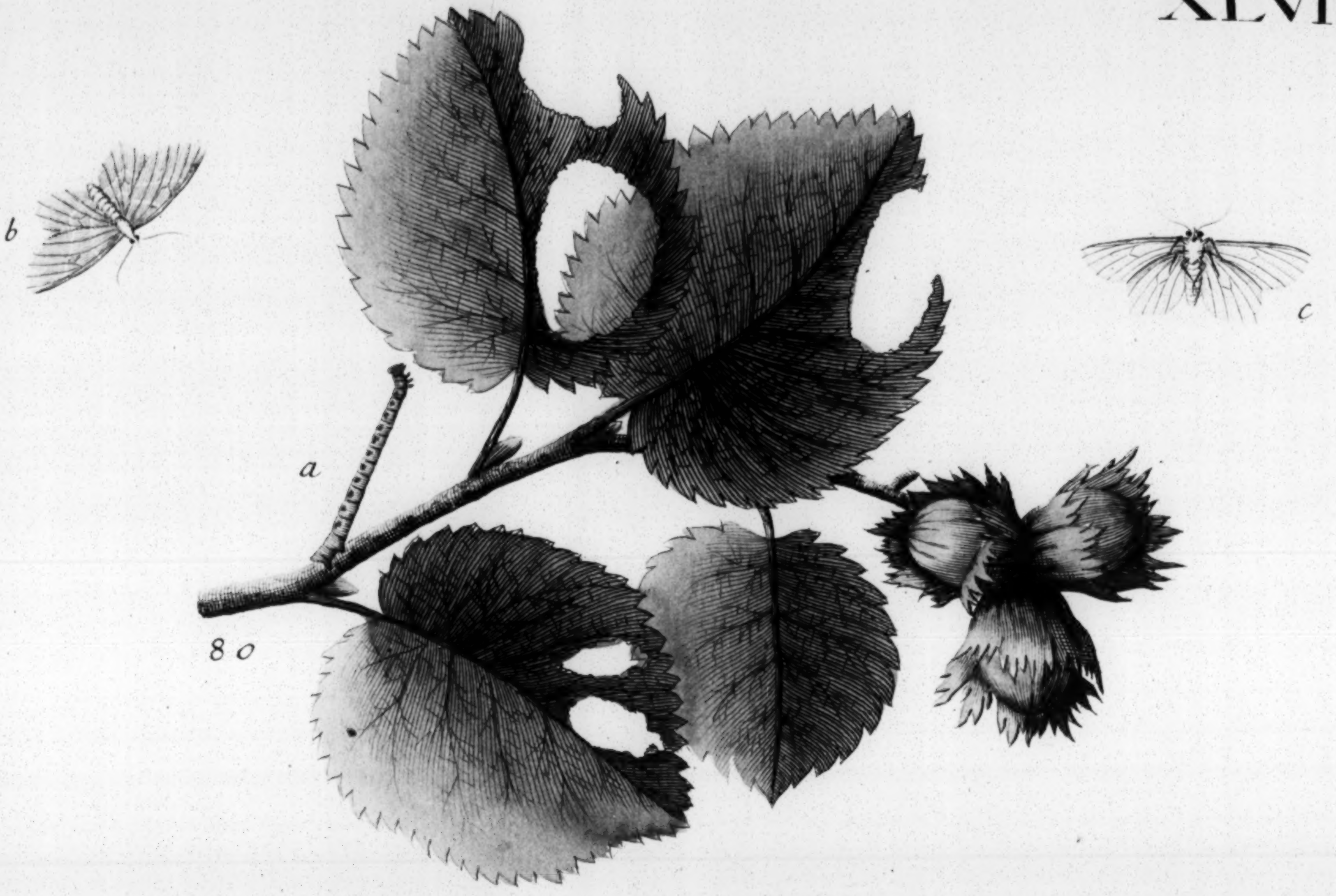
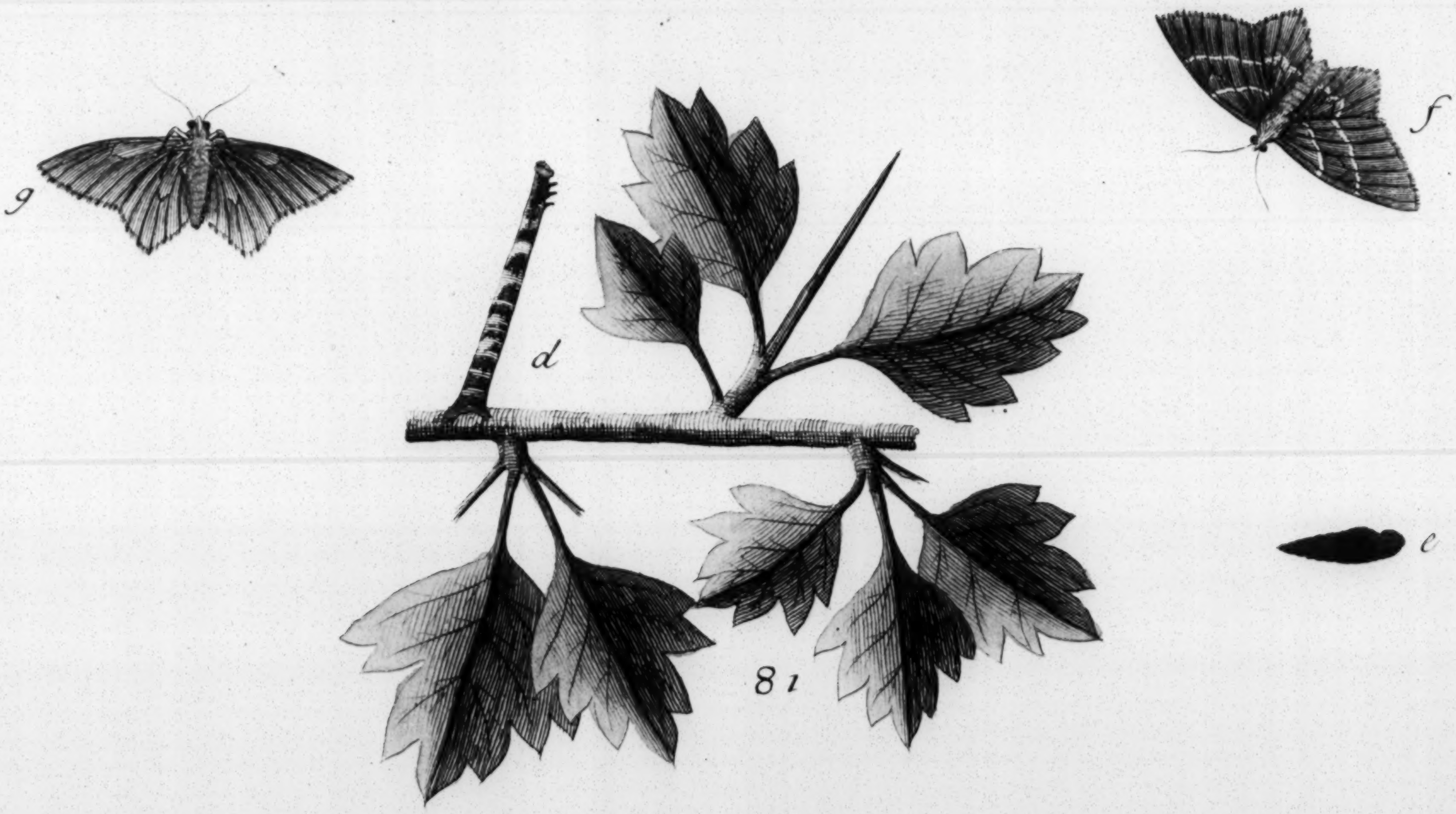
79

TO THE RIGHT HONORABLE
Elizabeth Seymour Counteſs of Thomond
this plate is hmbly Dedicated by Eleazar Albin .

E. Albin del. H. Fratson, Sculp, London,





To Mrs Elizabeth Herbert

this plate is humbly Dedicated by **Eleazar Albin**

E. Albin del. H: Terrafson, Sculp: London.

THE

DESCRIPTION *of the Forty Eighth* PLATE.

THE CATERPILLAR, *a*, in this Table was of a yellow Green Colour, the *Head* Red with Spots of the ſame on the *Back*. It was taken on the *Haſle* about the middle of *Auguſt*, on which it fed till the 2d of *September*, and then ſpun it ſelf up and changed into a *Chryſalis*, in which it remained till the 20th of *February*, then came forth a ſmall Green *Moth, b*, *c*.

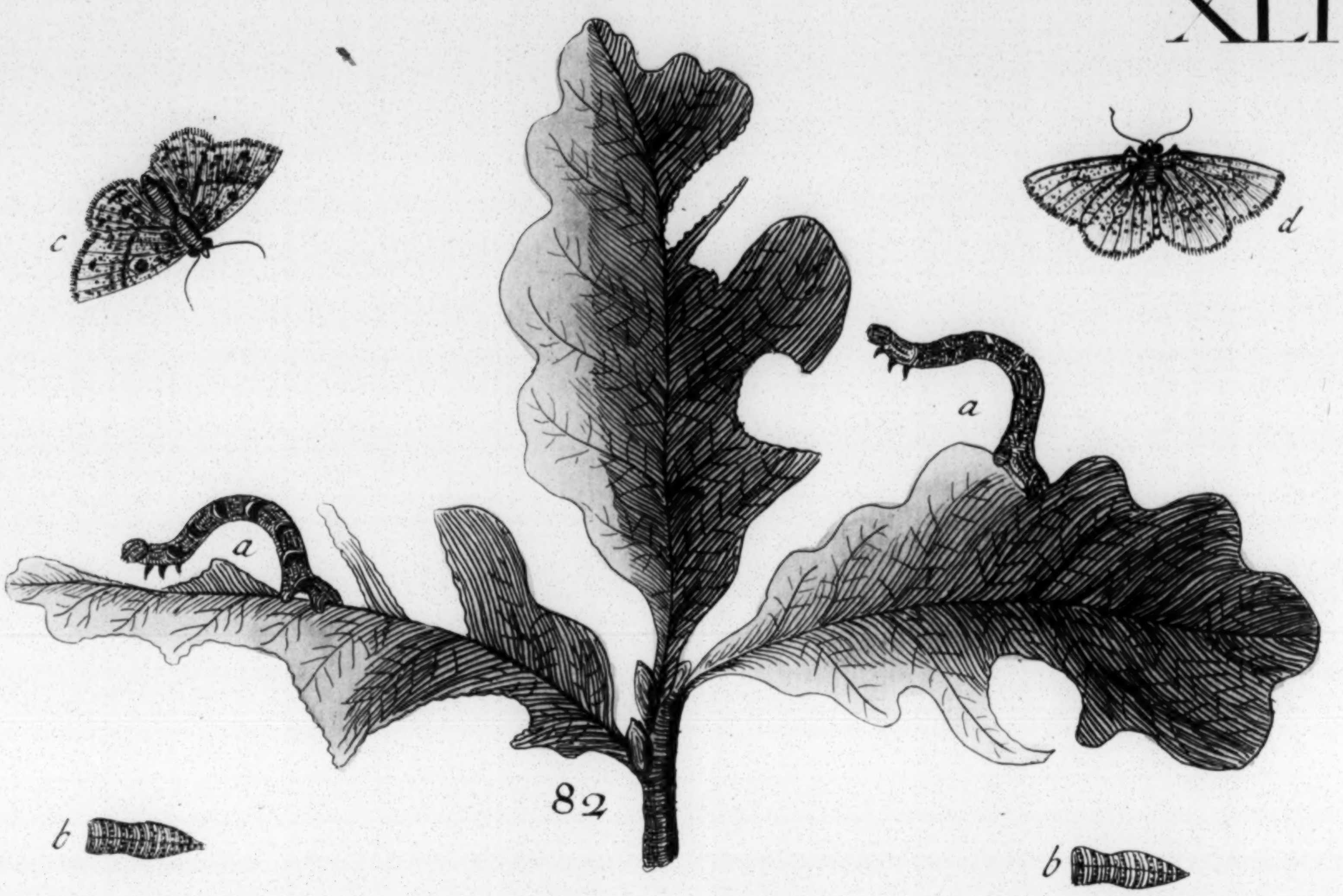
The CATERPILLAR, *d*, was Greeniſh with dark Clouds. It was found feeding on the *White-thorn*, about the latter end of *April*, near *Hornſey-wood*; on the 10th of *May* it ſpun it ſelf up by gathering or drawing the *Leaves* together with a *thin Web* in which it changed into a *Chryſalis*, *e*; the *Moth* *g*, *f*, came the 1ſt of *June* following, being of a blueiſh Green Colour with two Streaks of whitiſh Green a-croſs the *upper Side* of the *Wings*.

THE

DESCRIPTION *of the Forty Ninth* PLATE.

THE CATERPILLARS, *a*, *a*, in this Table are of divers Colours, ſome pale Brown, ſome Fleſh Colour, others Green. They were taken on the *Oak* on the 23d of *Auguſt* near *Muzzle-hill*, and on the 28th of the ſame *Month* they tied themſelves up after the Manner of the *white Butterfly*, *Table* 1*ſt*, to the Sides of the Box with their *Heads* upward, and changed into *Chryſalies*, *b*, of a deep Green, with a red Spot at the End of the *Tails*; the *Moth*, *c*, *d*, came the 29th of *September*, it was of a Fleſh Colour.

The CATERPILLARS, *e*, were differing in Colour, ſome Brown, others Green, all of them having Red *Heads*. They were found on the *wild Roſe* on the 29th of *May* near *Hornſey*; and the 14th of *June* they went into the *Earth* in the *Box*, and changed into *Chryſalies*, and the 21ſt of *February* came the *Moth* of a dark Brown Colour.



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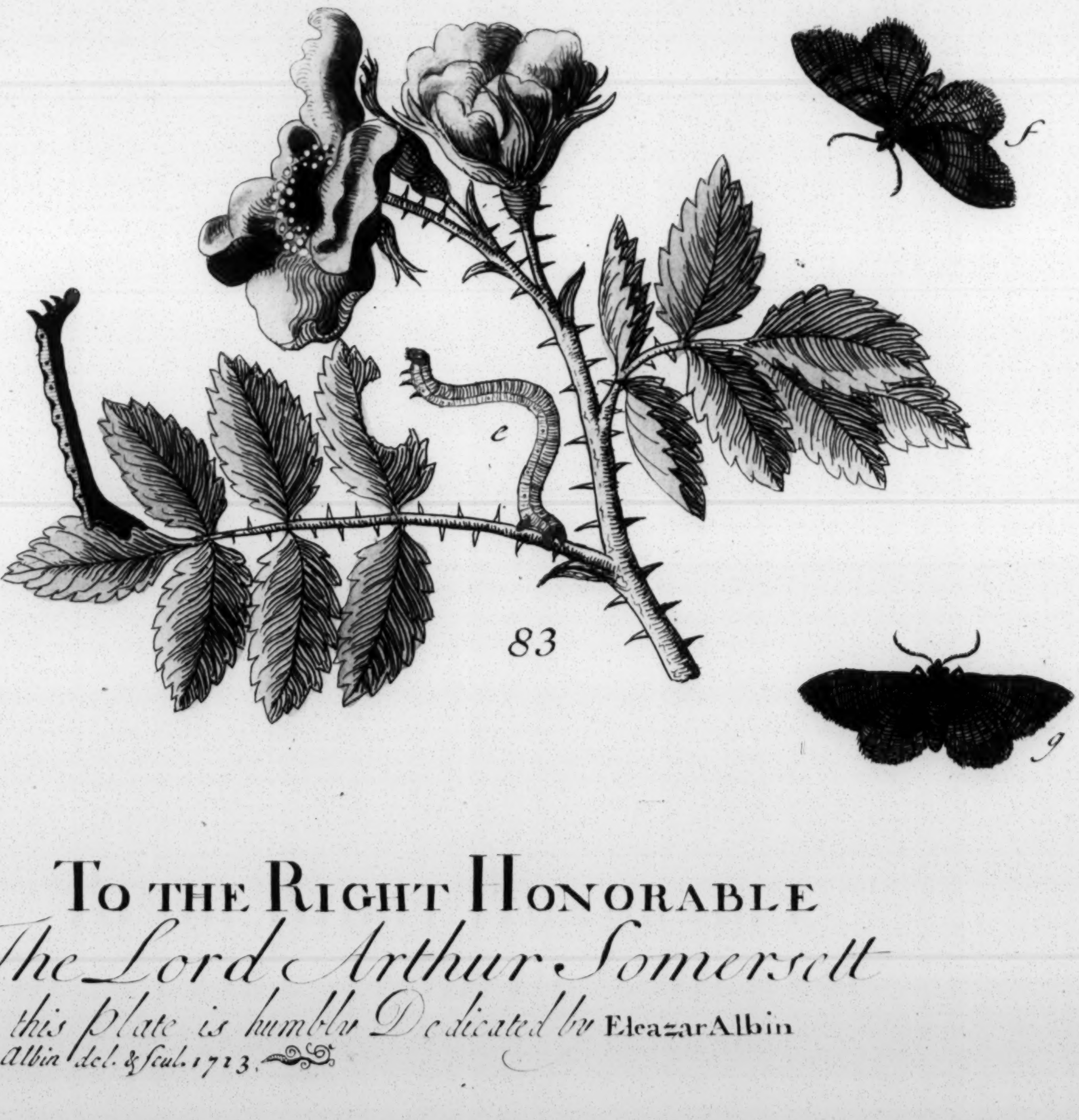
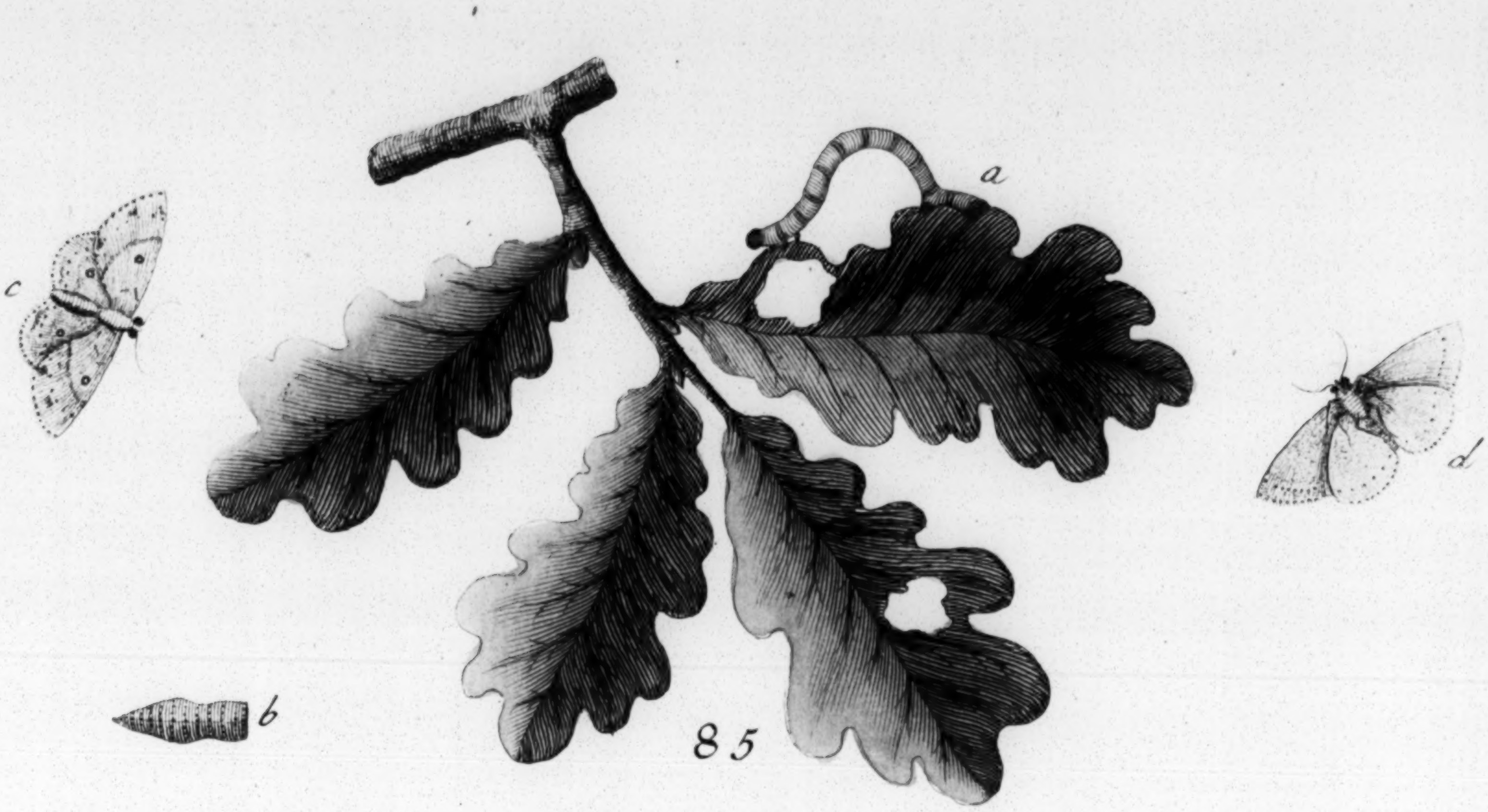


83

To the Right Honorable
The Lord Arthur Somersett
this plate is humbly Dedicated by Eleazar Albin
E. Albin del. & ſcul. 1723.

L



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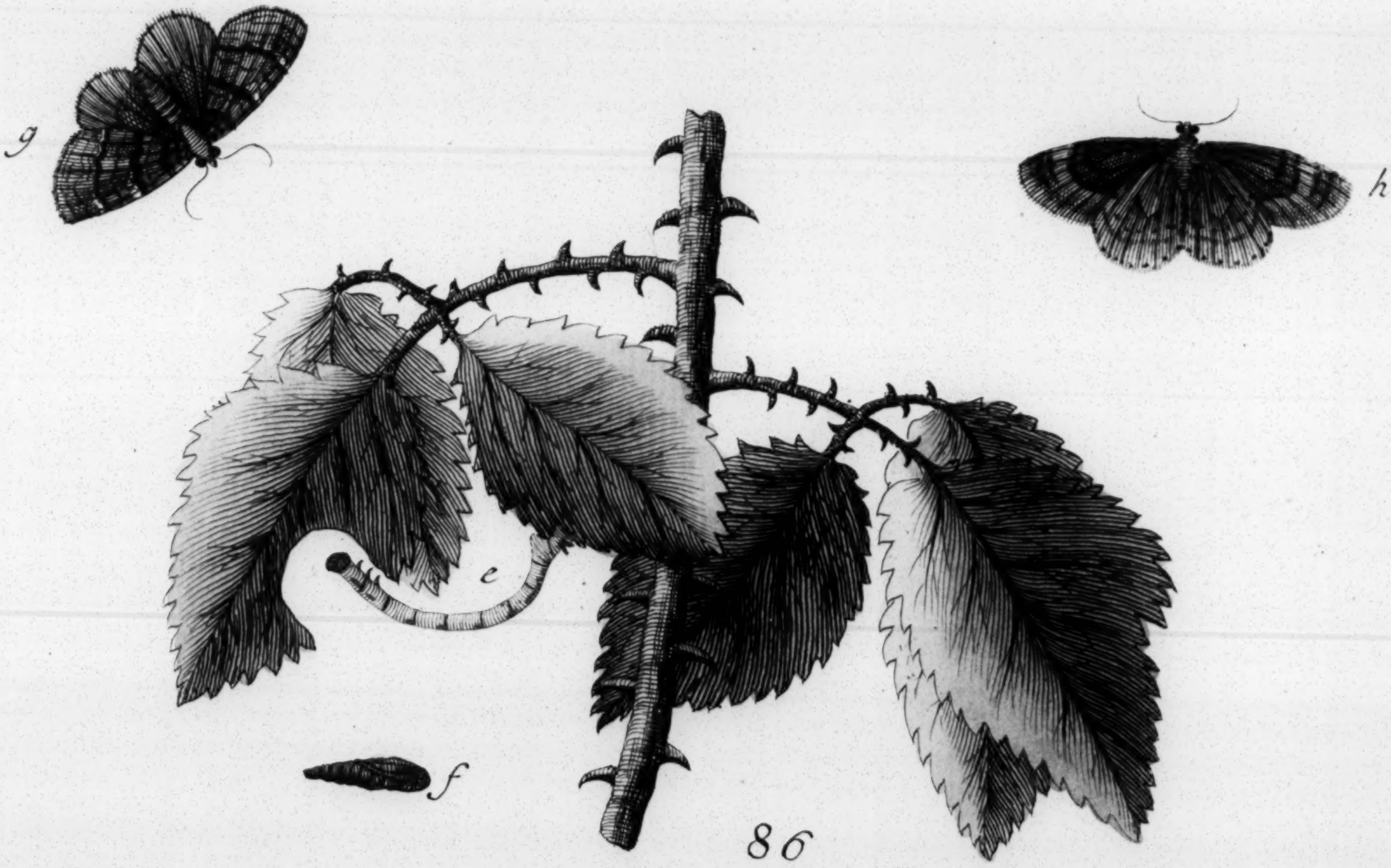


86

TO THE HONORABLE
Mrs Ann Somersett
this plate is humbly Dedicated by Eleazar Albin.

E. Albin del.

H. Terasson, Sculp. London

THE

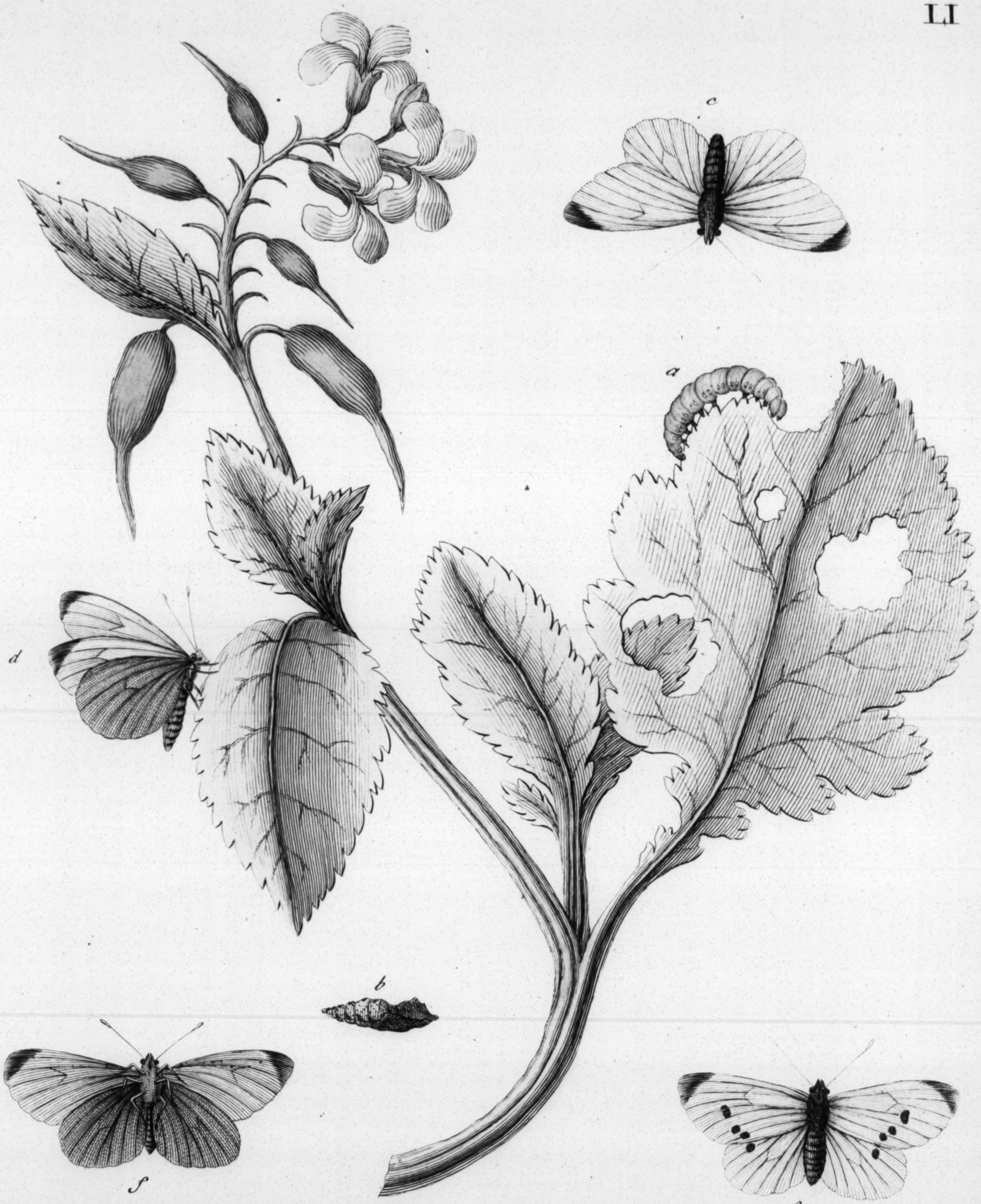
DESCRIPTION *of the Fiftieth* PLATE.

THE CATERPILLAR, *a*, in this Table, was of a Sea-green, the *Head* and *Tail* Red. It was taken the 28th of *June* feeding on the *Oak*, and the 3d of *July* it tyed it *Self* up after the manner of the *white Butterfly*, *Table* the 1ſt, and changed into a *Chryſalis*, the *Head* of which ſeemed as if cut off, as is expreſſed at *b*; in the *Table*, the 21ſt of *July* came forth a *Moth* of a pale Fleſh Colour, with ſmall Spots and Circles in the *Wings*.

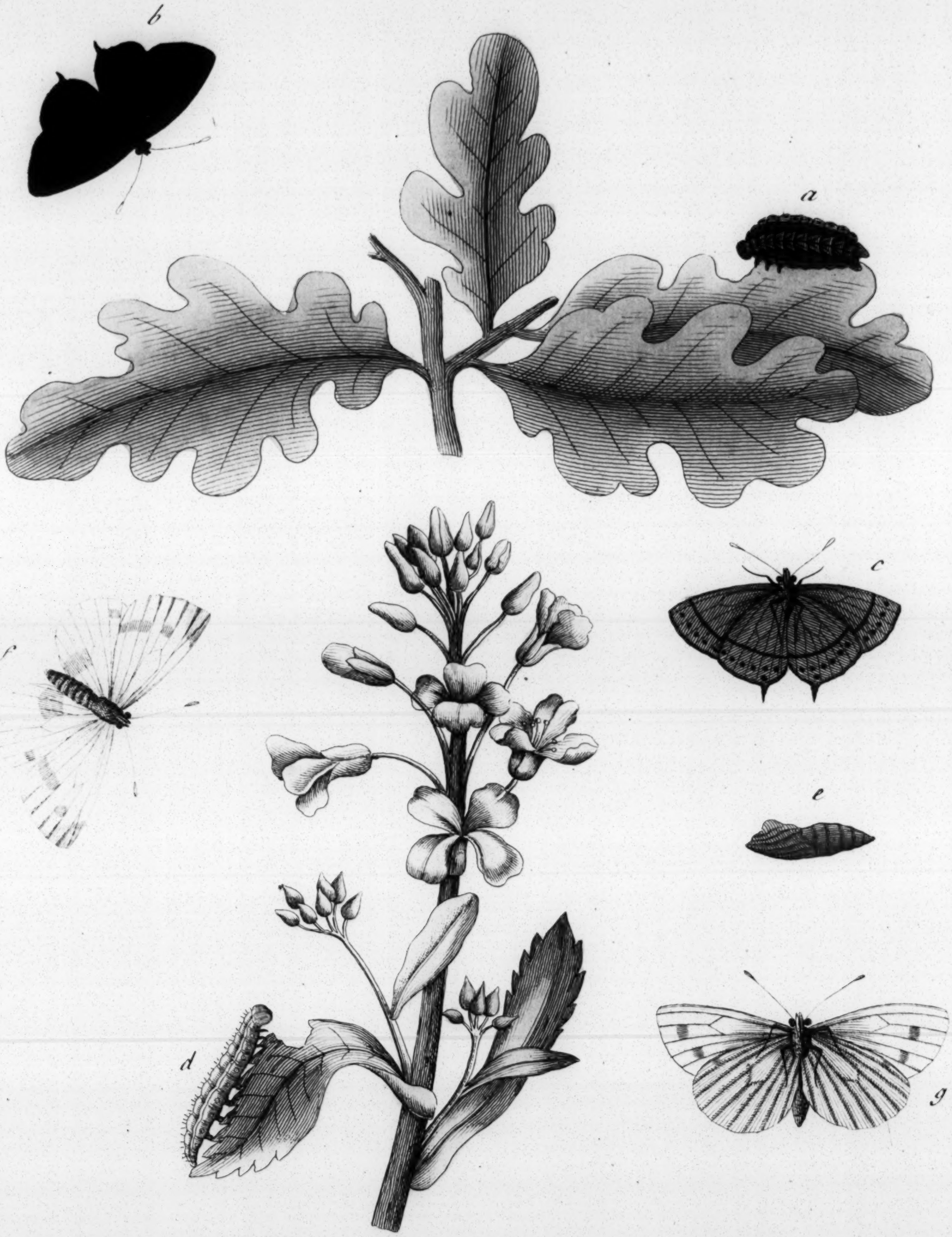
The CATERPILLAR, *e*, was of a yellowiſh Green, the *Head* of a deep Green, with Spots of Red on each *Joint* near the *Back*, and *two Points* of the ſame Colour ſtanding upright near the *Tail*. It was taken the 14th of *July* on the *Bramble* or *Blackberry-buſh* near *Chiſſelhurſt* in *Kent*, and the 28th of the ſame *Month* it made it *ſelf* a *Houſe* by *drawing* or *ſpinning* the *Leaves* together with a *thin Web*, in which it changed into a *Chryſalis*, *f*, and the 29th of *Auguſt* came a *Moth*, *g*, *h*, the *upper Wings* Green, the *under Wings* and *under Side* of a Hair Colour.

The DESCRIPTION *of the Fifty Firſt* PLATE.

THE CATERPILLAR, *a*, in this *Table* was Green. It was found feeding on the *Radiſh* about the middle of *June*, they alſo feed on *Cabbage*, *Horſe-radiſh*, *Creſſes*, and *Scurvy-graſs*; at the latter end of the ſame *Month* it tied it ſelf up by the *Tail*, and croſs the *Middle*, and the 13th of *July* came the *Butterfly*. The *Male*, *c*, *d*, and *Female*, *e*, *f*, are very like the *Butterflies* in the firſt *Plate* in Marks and Colour, but conſiderably leſs. There is alſo another *white Butterfly* frequent in *Woods*, a great deal leſs than this; the CATERPILLAR which it produces, I cou'd never yet find. See *Liſter on Godart, page* 12. N° 8.



To William Byrd of Westover in Virginia Esqr
this Plate is humbly Dedicated by Eleaz^{r} Albin



To John Cook Esq.r
This Plate is humbly dedicated by Eleaz.r Albin

The DESCRIPTION *of the Fifty Second* PLATE.

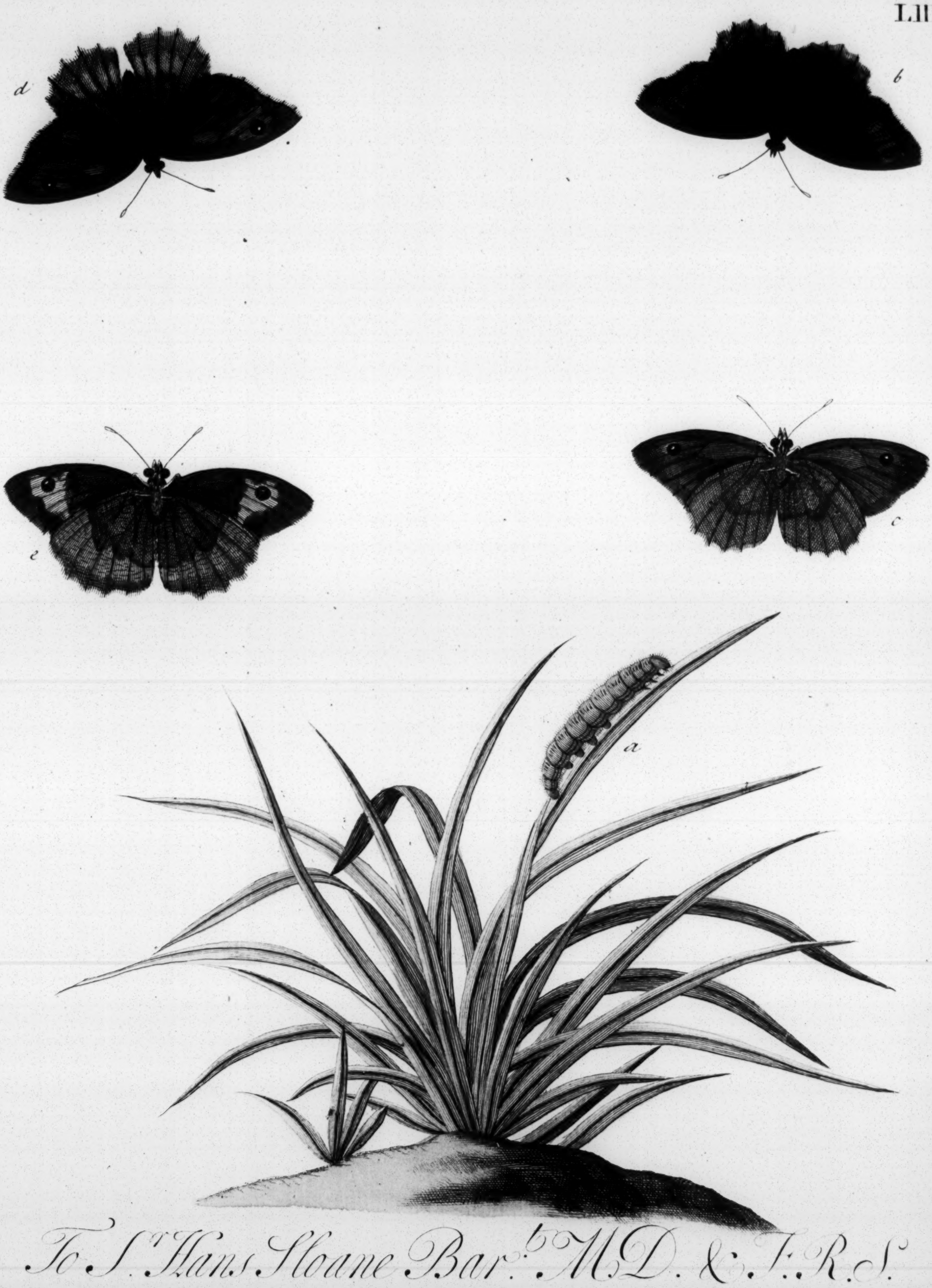
THE ſtrange-ſhaped CATERPILLAR, *a*, in this *Table*, was Yellow. It was found on the *Oak* in *Cain Wood* near *Highgate*, the 11th of *June*; and changed into a *Chryſalis* the 17th of the ſame *Month*. On the 14th of *July* came the *Butterfly*, the *upper Side*, *b*, of a dark brown and blueiſh Purple, the *under Side* *c*, of a light Hair Colour, it is commonly called the Purple Hair-ſtreak.

The CATERPILLAR *d*, was Green with a Stripe of Yellow on each *Side*. It was found on the *Cabbage* about the latter End of *June*, and the Beginning of *July* it tied it ſelf up and changed into *Chryſalis*, *e*, the 20th of the ſame Month came forth the Green vein'd *Butterfly* *e*, *f*. See *Merian*, *Vol*. 2. *Chap*. 39.

The DESCRIPTION *of the Fifty Third* PLATE.

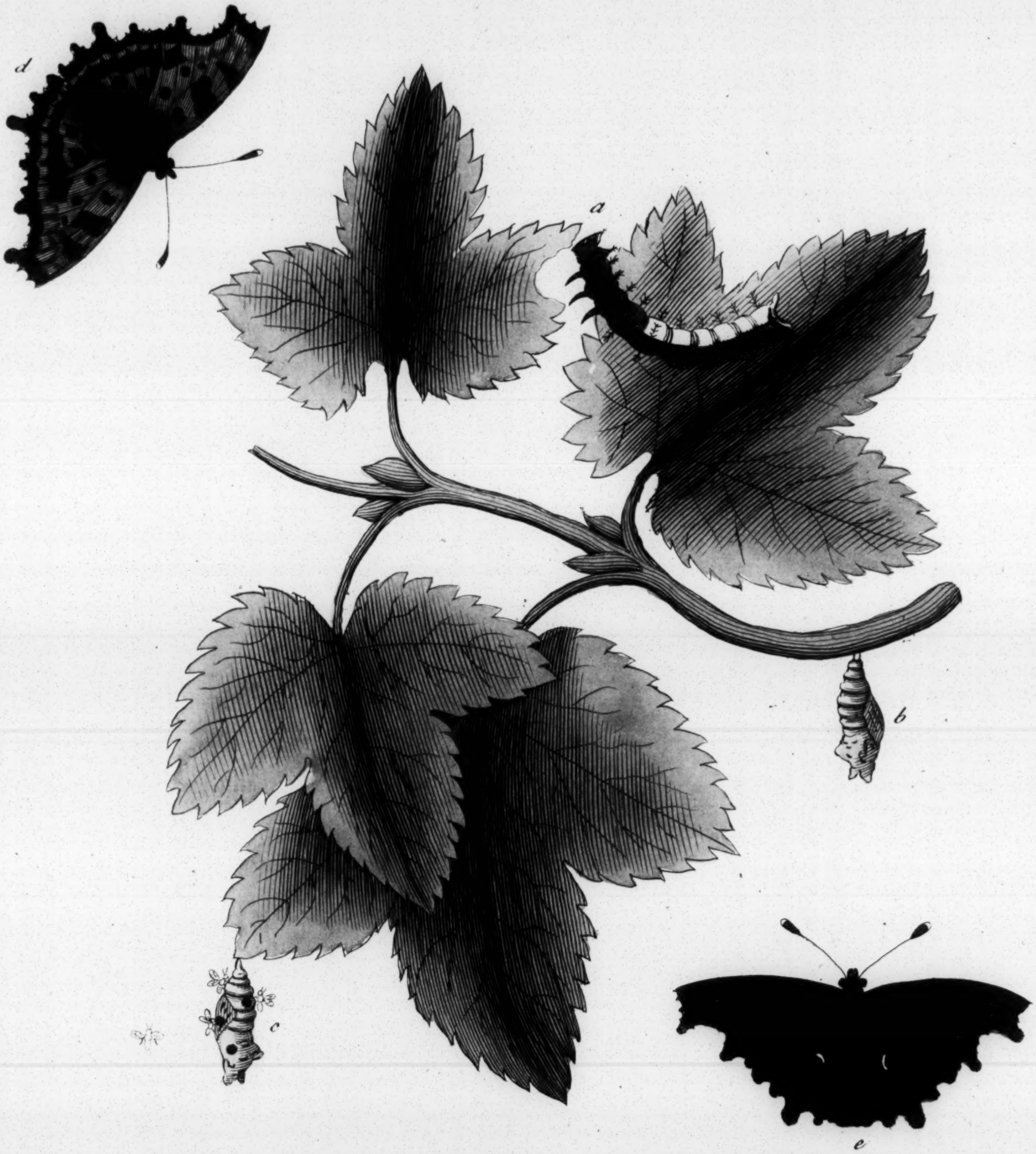
THE CATERPILLAR, *a*, in this *Table*, was Green, and covered all over with ſhort *Hair*. It was found feeding on *Graſs* the 8th of *May*, and the 24th of the ſame *Month* it faſtned it ſelf up by the Tail, and changed into a ſhort thick green *Chryſalis* ſtreaked with Black, and the 11th of *June* came the Meadow Brown *Butterfly*: *b*, *c*, the *Male*; and *d*, *e*, the *Female*; having each an *Eye* in their *upper Wing*.

LIII



To Sr. Hans Sloane Bart. M.D. & F.R.S.
this plate is humbly Dedicated by Eleazar Albin.

H. Terasson Sculp.



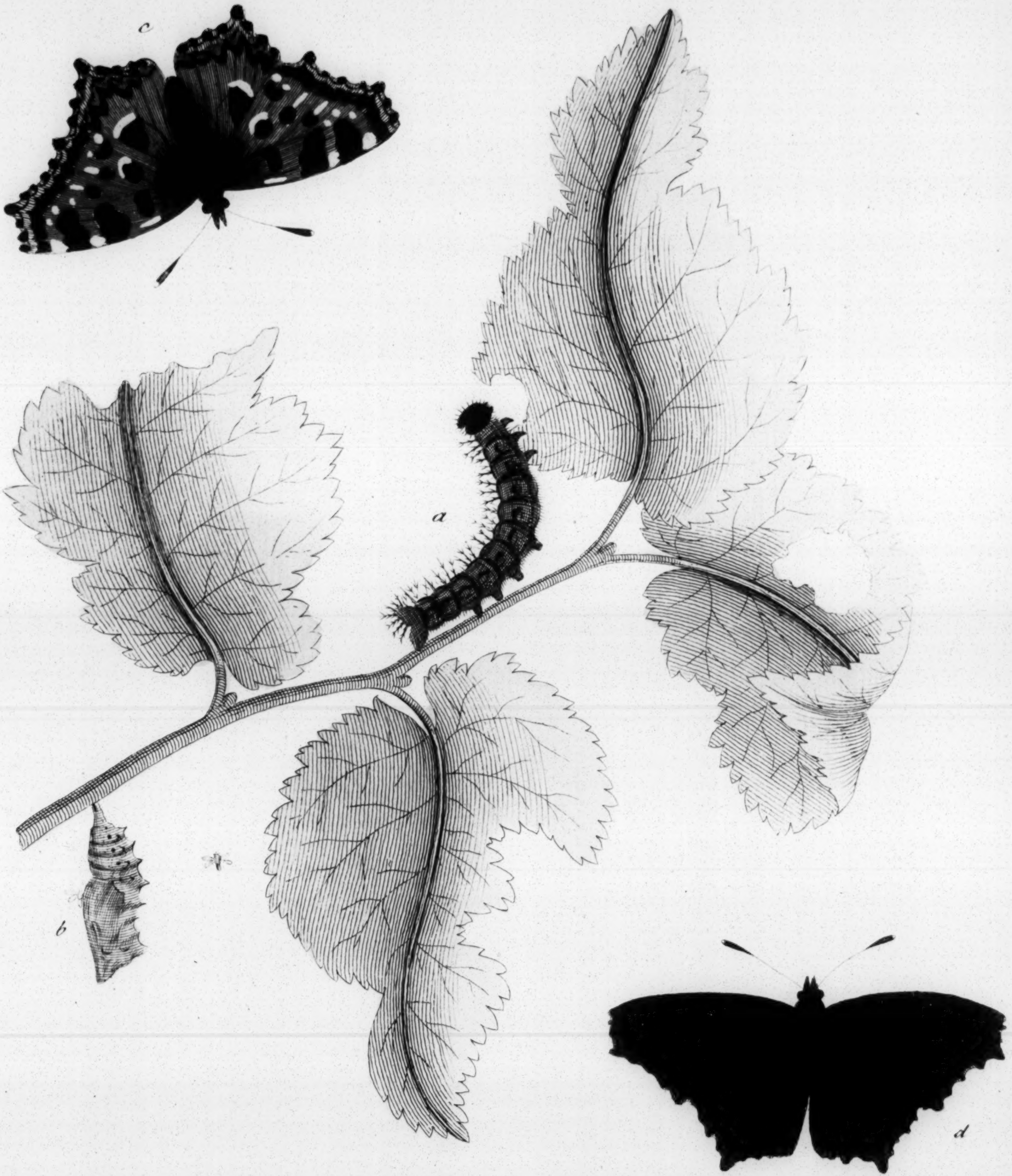
TO THE Rt. HONORABLE
Thomas Lord Foley
This Plate is humbly dedicated by Eleazr. Albin.

The DESCRIPTION *of the Fifty Fourth* PLATE.

THE *Belly* and half the *Back* of the CATERPILLAR, *a*, in this *Table* were Brown ſpotted with Red, the other part White, with Briſtles of the reſpective Colours on each. It was found feeding on *Hops* the 26th of *July*; the 7th of *Auguſt* it changed into *Chryſalis*, *b*, and the 23d of the ſame *Month* came a *Scallopt-winged Butterfly*, *d*, *e*, of a Brown Orange Colour, having in the *Middle* of the *under Side* of each *under Wing* a white mark like a *Comma*, from which it is uſually ſo call'd. See *Merian Vol.* 1. *Chap.* 14.

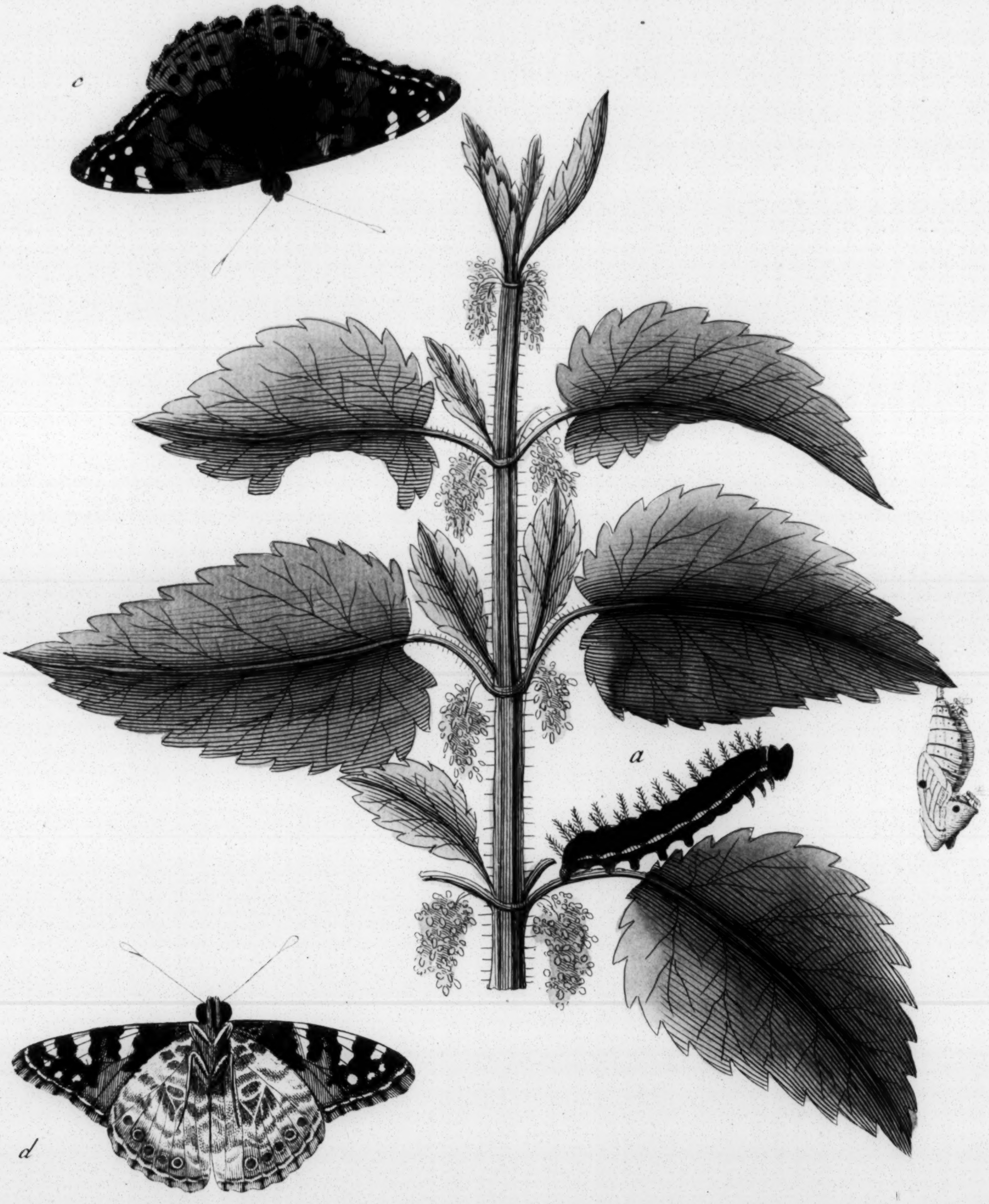
The DESCRIPTION *of the Fifty Fifth* PLATE.

THE CATERPILLAR, *a*, in this *Table* was blueiſh ſpotted and *briſtled* with Yellow, the *Head* and *Feet* Black. It was taken on the *Elm* the 10th of *June*. The CATERPILLARS when *young* keep together, and when *full fed* they ordinarily *tie themſelves* up by the *Tail* under the *Coppings of Walls*, or ſome ſuch ſhelter, and change into *Chryſalis*, *b*, which is about the middle of *June*; and in the beginning of *July* produce a *Butterfly* *c*, *d*, commonly called the *great Tortoiſe-ſhell*. From ſeveral of theſe *Chryſalies* came Broods of ſmall *Ichneumon Flies* expreſſed near the *Chryſalies*. See *Liſter on Godart page* 3. *N*° 3. See *Merian*, *Vol.* 2 *Tab.* 2.



To John Philip Brayne of Dantzick M.D. & F.R.S.

This Plate is humbly dedicated by Eleaz.r Albin.



To M.r Thomas Robe Merch.t
This Plate is humbly dedicated by Eleaz.r Albin

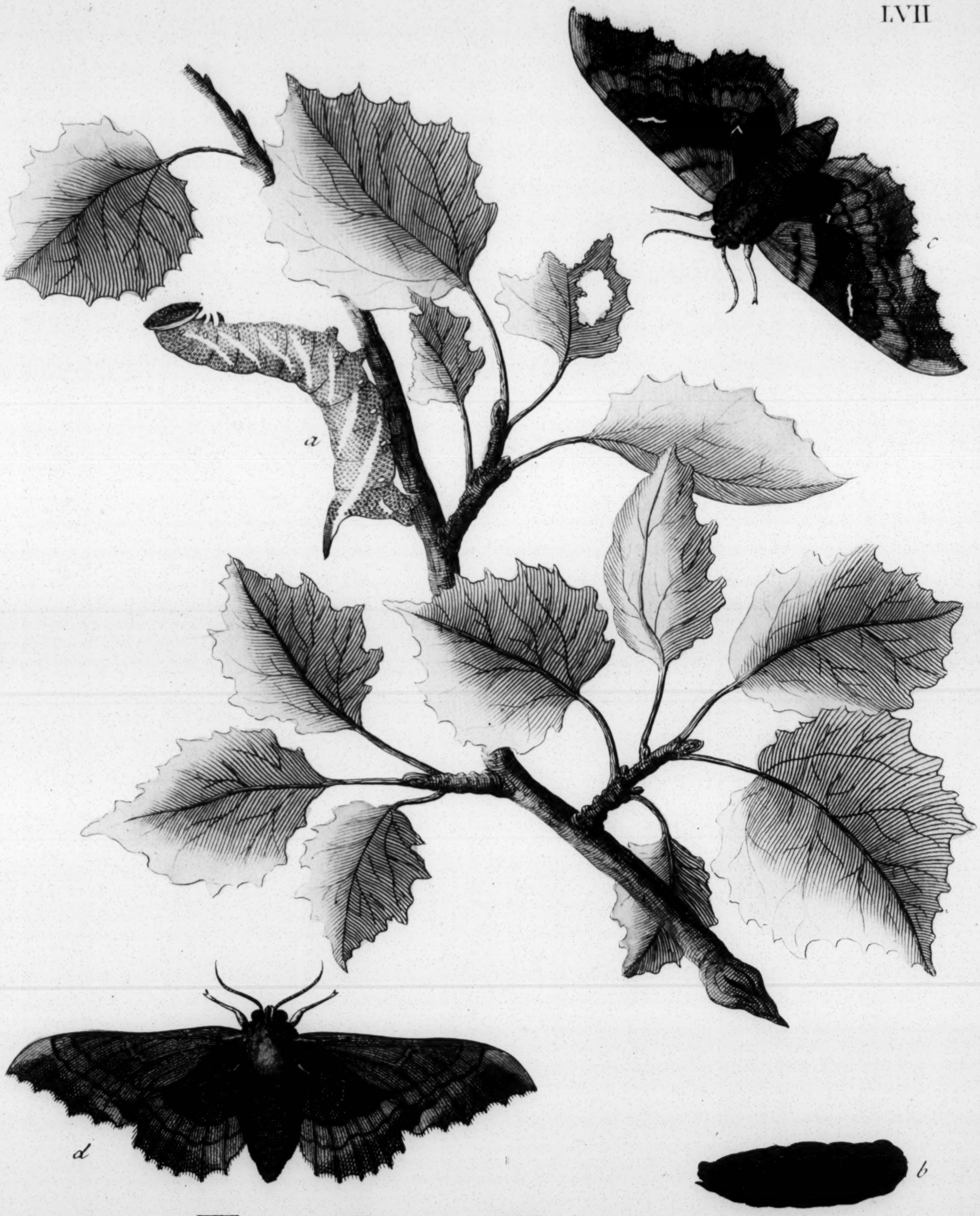
The DESCRIPTION *of the Fifty Sixth* PLATE.

THE CATERPILLAR, *a*, of this *Table* is moſt commonly Black, and ſometimes Yellow, much like the CATERPILLARS of the third *Table*, and is not eaſily diſtinguiſhed from them; this ſeem'd to me ſomewhat ſlender. It was found ſpun up in the *Leaves* of the large *Nettle*, the 22d of *June*; at the latter end of the ſame *Month*, it changed into *Chryſalis*, and the 15th of *July* came a moſt Beautiful *Butterfly*, *c*, *d*, called the *Painted Lady*. See *Liſter on Godart*, *page* 7. *N*° 5.

* * *

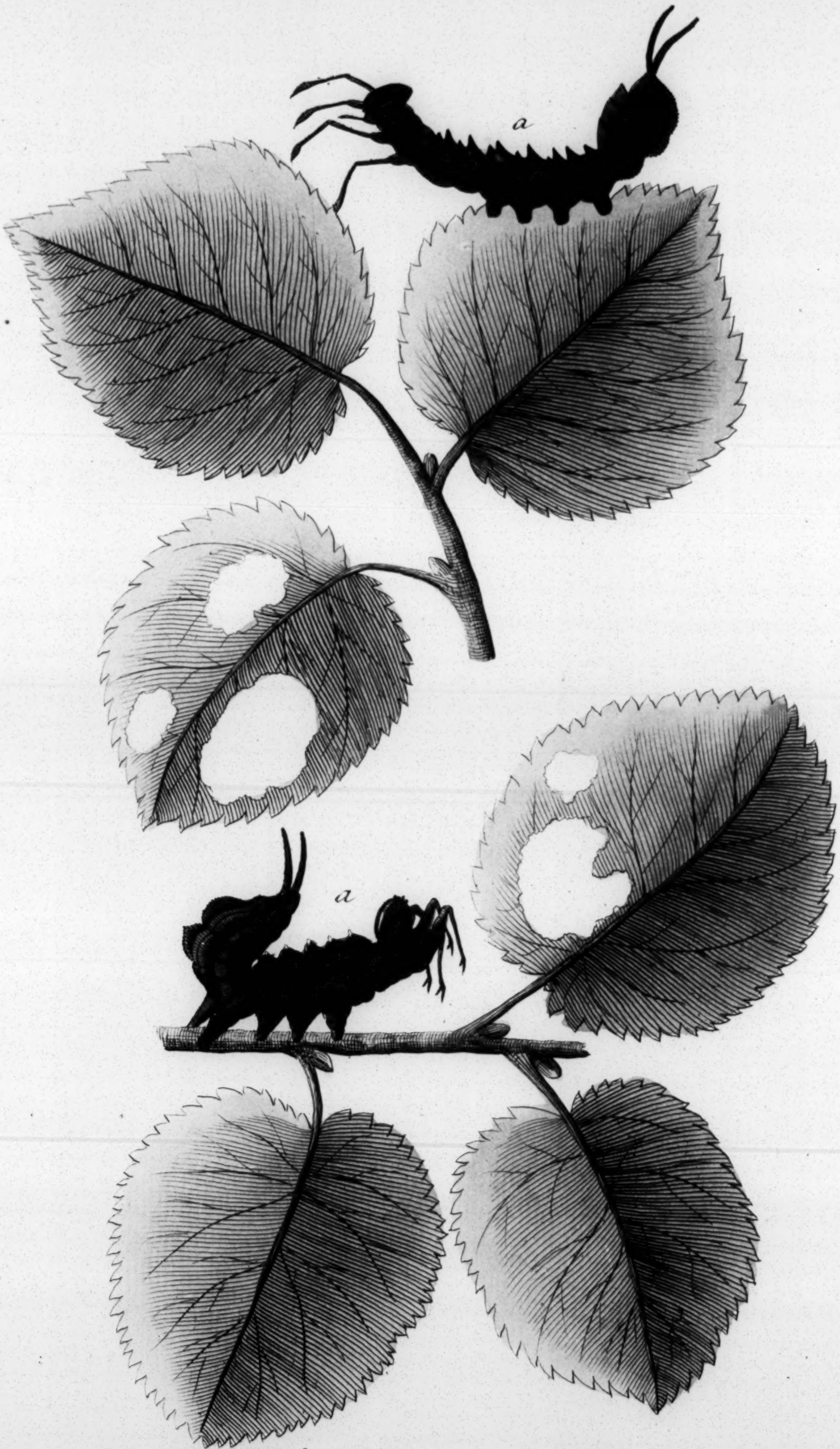
The DESCRIPTION *of the Fifty Seventh* PLATE.

THE CATERPILLAR in this *Table* was Green, and ſtriped with White, the laſt of which went up into the Horn on his *Tail.* It was taken feeding on the *Poplar* at the Beginning of *September*, and at the latter End of the ſame *Month* it went into the Ground and changed into a *Chryſalis*, and remained in that State till the Beginning of *May*, at which time came forth the *Moth*, *c*, *d*, the CATERPILLARS with *Tails* produce *Moths* that are very ſwift of Flight, for which Reaſon they have the Name of *Hawk Moths.* this being commonly called the *Poplar Hawk Moth*;



TO THE RIGHT HONORABLE
The Counteſs of Schaumbourg Lippe and Buckenbourg
this Plate is humbly Dedicated by Eleazar Albin.
H. Teraſson, Sculp, Londō

LVIII



To the Honble Collonel George Churchill
this plate is humbly Dedicated by **Eleazar Albin.**

H. Teraſson Sculp.

The DESCRIPTION *of the Fifty Eighth* PLATE.

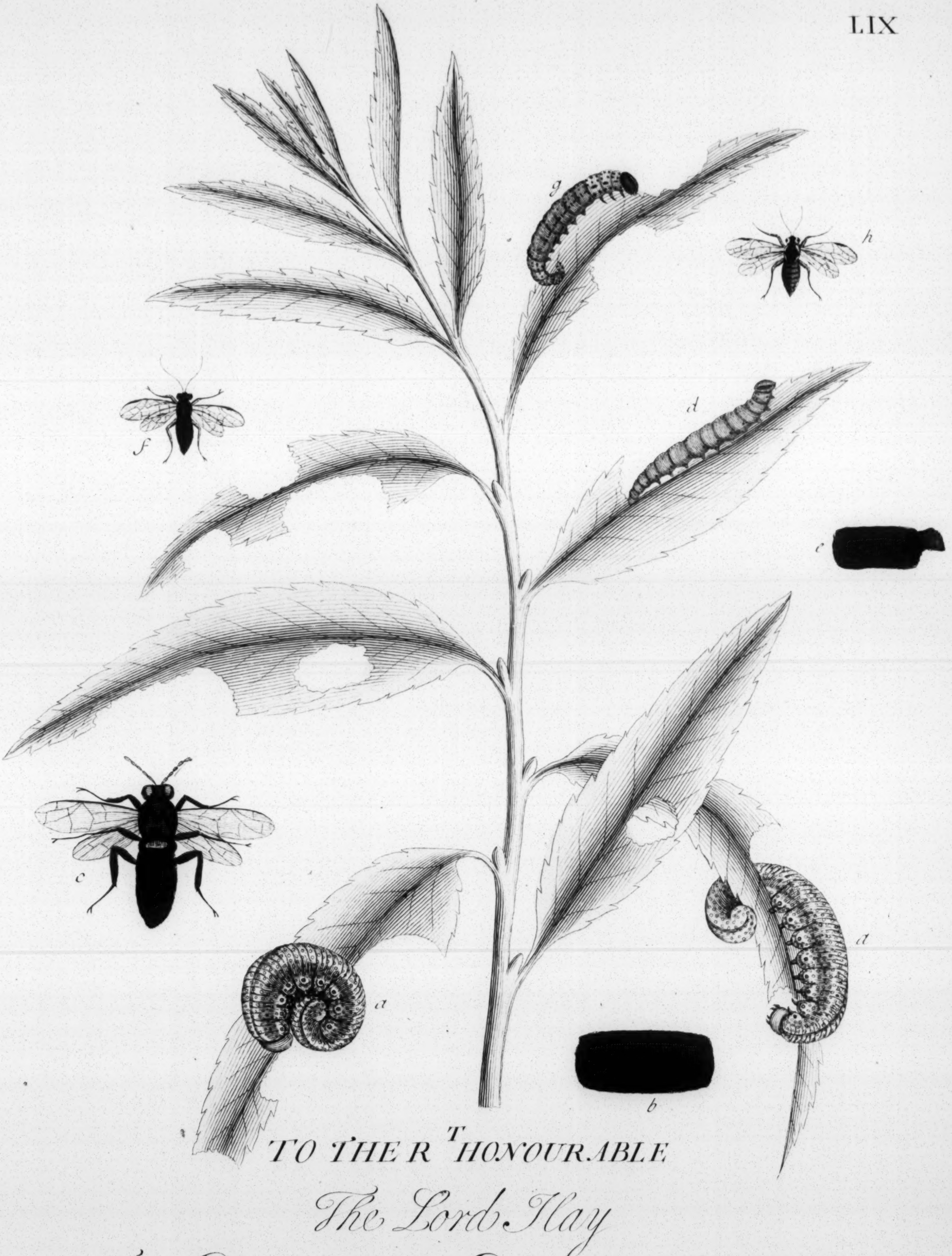
THIS CATERPILLAR was taken on the *Haſle* in *Norwood* near *Dulwitch* the 9th of *Auguſt*, it was of a browniſh Orange Colour: I have drawn it both in its moving and ſtanding Poſture, the better to expreſs its odd *Shape* and Manner from its *Look* which has ſome Reſemblance of a *Cruſtaceous Fiſh*, for which Reaſon I have given it the name of the *Lobſter* CATERPILLAR. It was kept in a *Box* with ſome of the Branches of the *Haſle* ſet in *Bottles* with *Earth* under them to facilitate its Change; but I did not perceive it to eat. It ſpun it ſelf up the 13th of the ſame Month between the *Bottles* in a tranſparent *Caſe*, and dyed without changing.

The DESCRIPTION *of the Fifty Ninth* PLATE.

The Caterpillar, *a*, *a*, in this *Table* was Yellow, with a Shade of Green on its *Sides*, a blueiſh Stripe on its *Back* edged with ſmall *Lines* of Black, and over all its *Body* ſmall white Specks, it had two black Spots repreſenting *Eyes* in the upper Part of its *Head*. It had three *Feet* and eight *Holders* on each *Side*, which I have obſerved in moſt of the Caterpillars of the *Ichneumon* Kind. Their manner in Standing is different from other Caterpillars, for they generally curl their *Tails*. This was found on the *Dutch Willow* the 2d of *July*, and the 10th they ſpun a *Cylindrical ſhining Caſe*, *b*, and the 25th of *May* came the *Fly*, *c*.

The two Caterpillars on the upper Part of the *Branch*, *d*, *g*, were taken at the Beginning of *July*; the 8th of the ſame *Month* they went into the *Earth*, and made a *Caſe*, *e*, like the former; about the middle of *Auguſt* the Caterpillar, *d*, produced the *Fly*, *f*, and the Caterpillar, *g*, that at *h*.

LIX

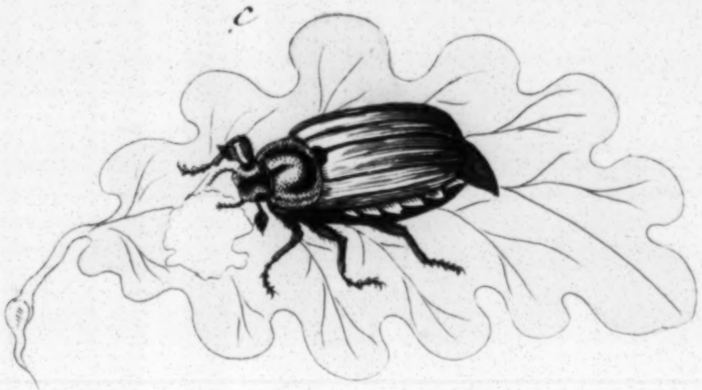


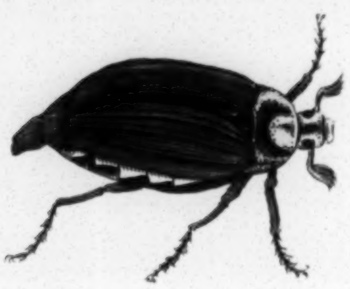
TO THE R^{T} HONOURABLE

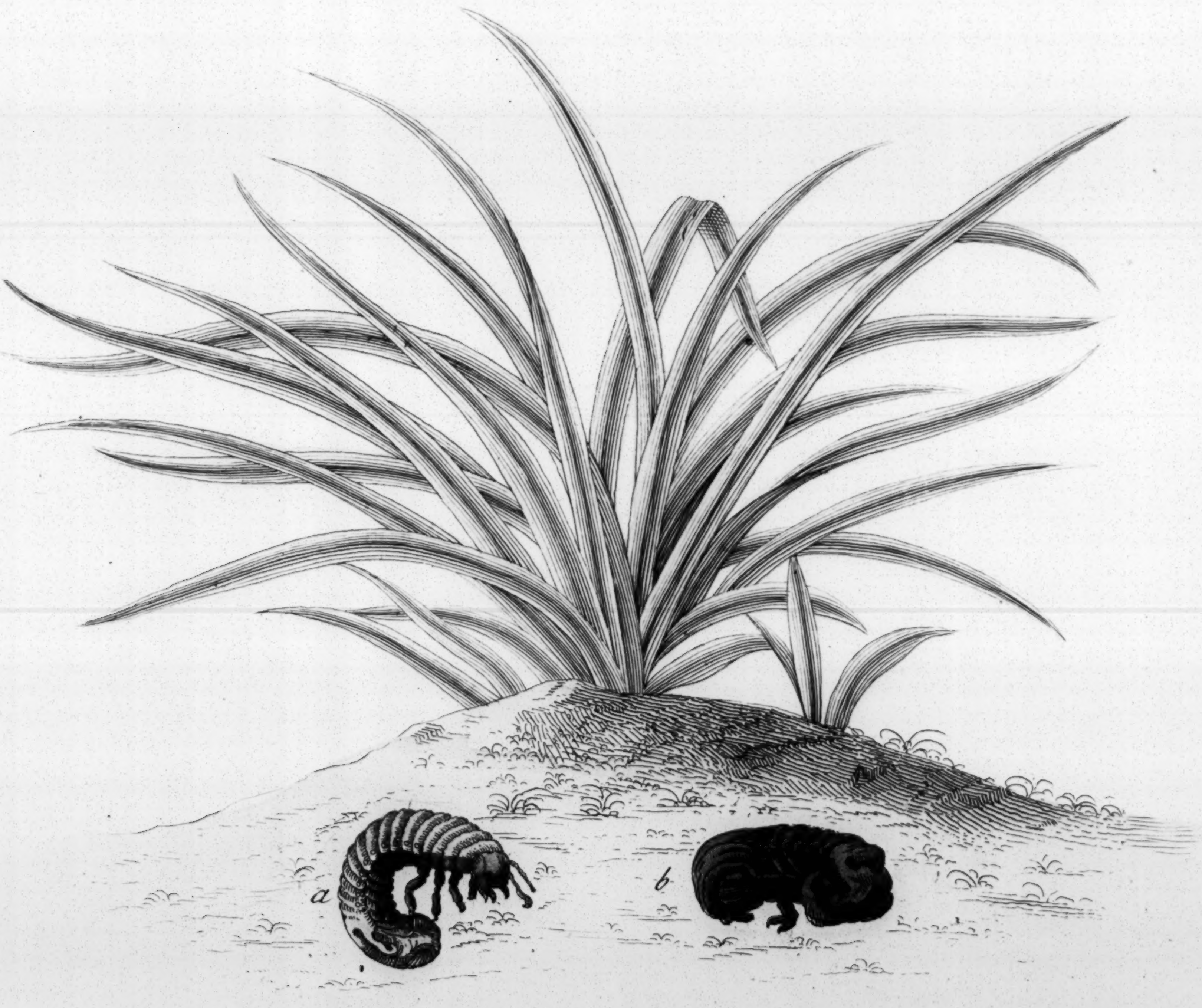
The Lord Ilay

This Plate is Humbly Dedicated by Eleaz^{r}. Albin.

E. Albin del. *Hulett — Sculpsit*







To Richard Lyddill Esq.

This Plate is humbly dedicated by Eleaz^r. Albin.

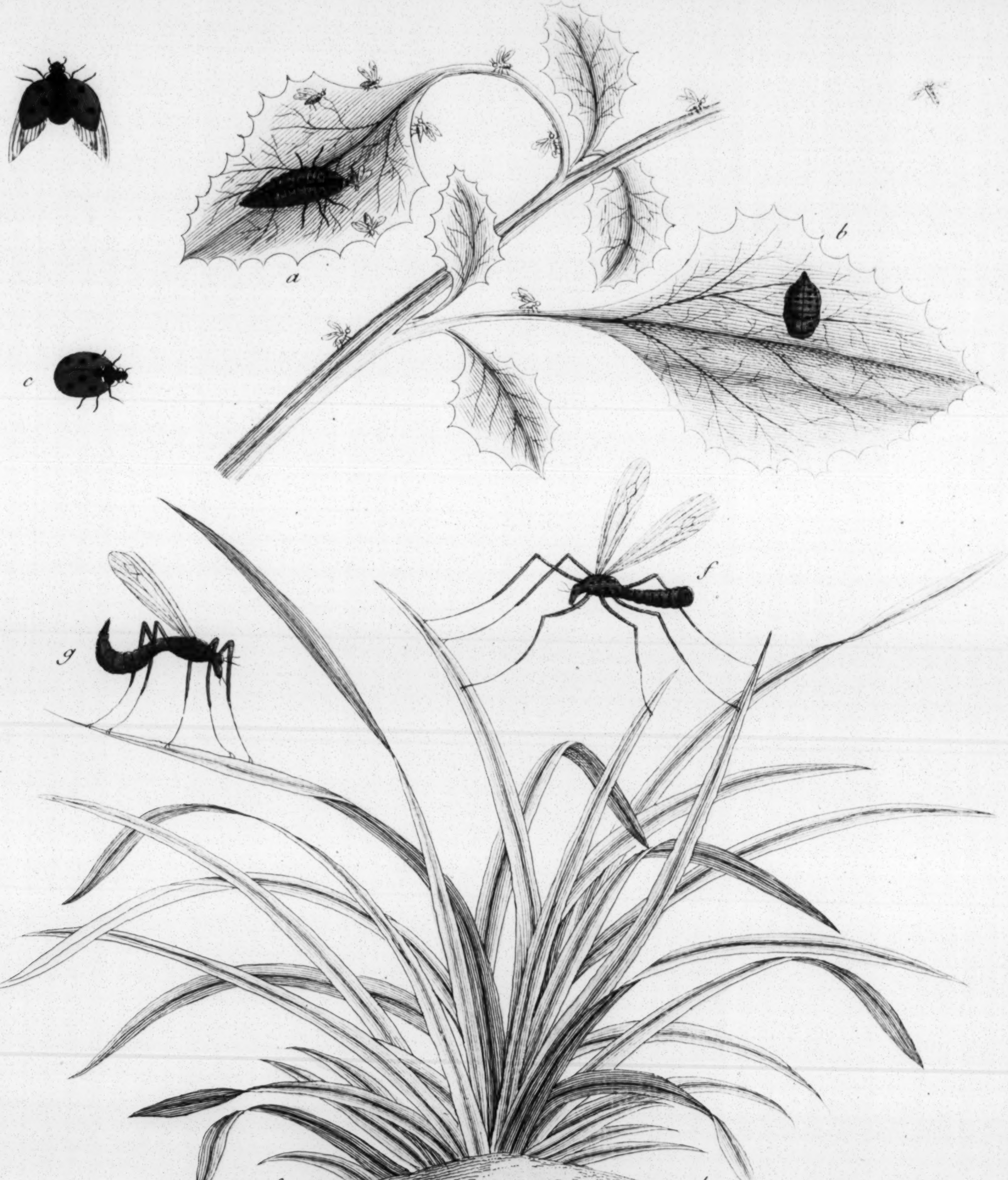
The DESCRIPTION *of the Sixtieth* PLATE.

THE *Grub* or *Worm* in this *Table*, at *a*, is commonly found in *Graſs-fields* which are new ploughed. I found many of them by following the *Plough*. I obſerved that the *Crows* and *Rooks* were very diligent in picking them up. I put ſeveral of them into a *Box*, in which they killed one another with their *Nippers*; thoſe which remained I kept in a *Pot* of *Earth* with ſome of the Roots of *Graſs* and other *Plants*. They changed into *Chryſalis*, *b*, about the Beginning of *September*, and in the middle of *May* came forth a brown *Beetle* called the *Chafer*, *Oak Web*, or *May Beetle*, the *Male* at *d*, and the *Female* at *c*,

The DESCRIPTION *of the Sixty Firſt* PLATE.

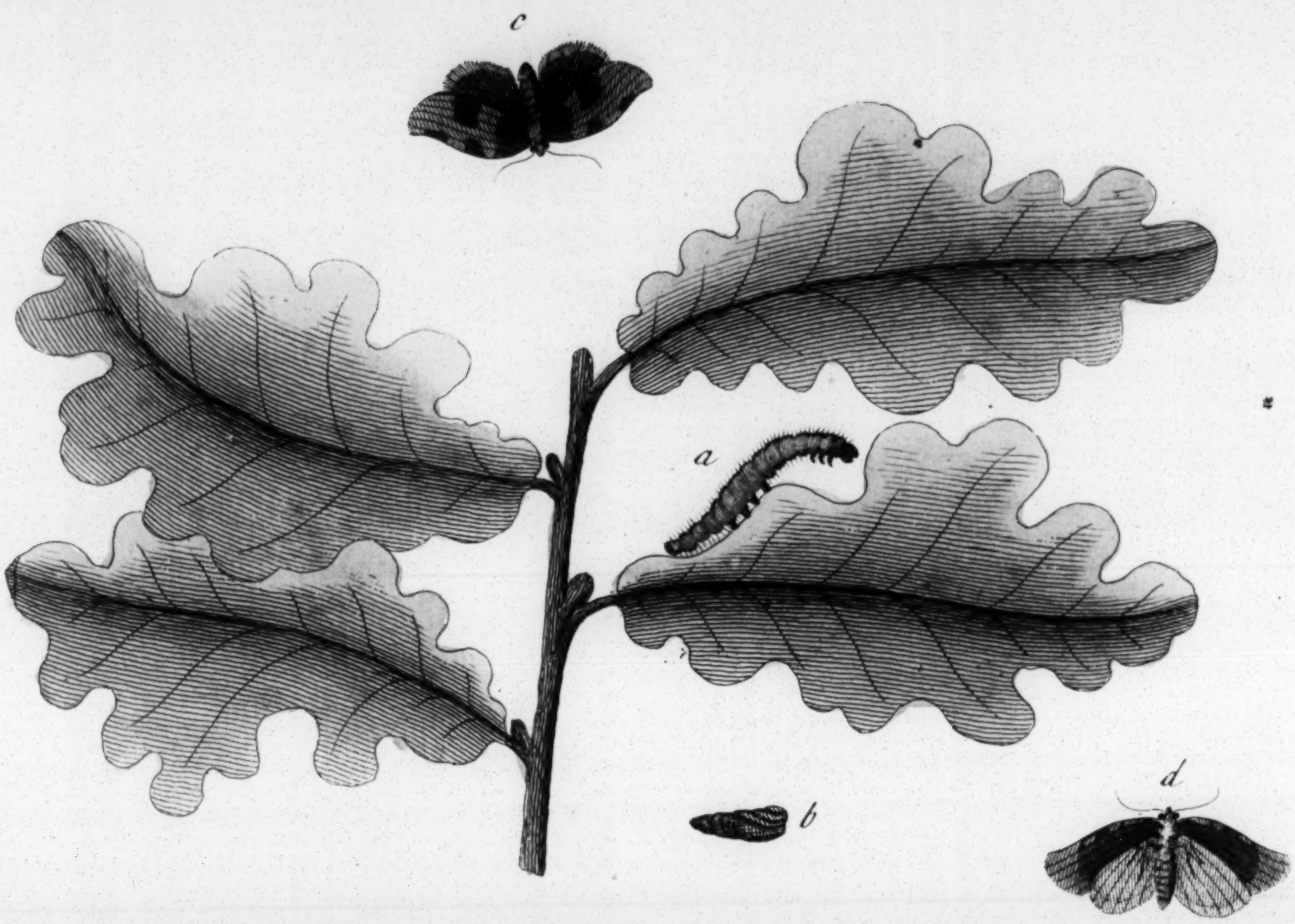
THE *Grub* on the *green Leaf*, at *a*, was purple and Yellow. It was found on the *Orach* the 25th of *June* feeding on *ſmall Inſects*, which were very numerous on that *Plant*. With theſe I fed them till they compoſed themſelves for Change, which they did the 27th of *June*, by faſtning their *Tails* to the *Leaves* of the *Plant*, and chaned into *Chryſalis*, *b*; from theſe came the red *Beetle* ſpotted with Black, called the *Cow-lady*, *c c*, the uppermoſt of which hath its *Wings* expanded, See *Liſter on Goddart page* 108. *N*º 112.

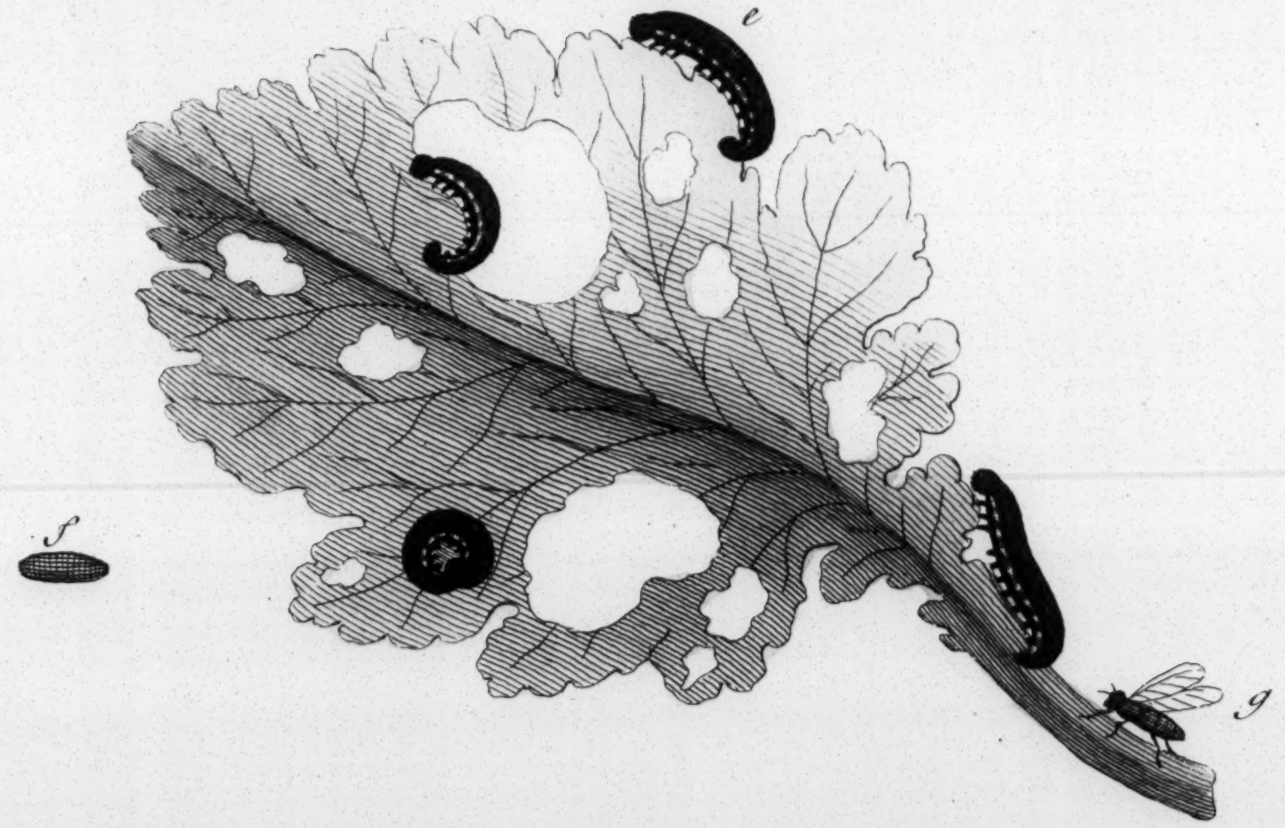
The dark colour'd *Grub* under the *Graſs* at *d*, was found in the *Earth* the 25th of *April*. I fed it on the Roots of *Graſs* in a *Pot* till the 20th of *Auguſt*. It then changed into a *Chryſalis*, *e*. I had two one of them was kept moiſt, and produced a *Fly* called the *Harry long Legs* or *Taylor Fly*, this prov'd a *Female*, *g*, and laid four hundred *Eggs* in a *Box* I kept her in; the other was kept dry, and it ſhrunk up and died. I have often obſerved that keeping *Chryſalies* too dry is a great Hindrance of their perfecting the *Fly*. The *Male* is expreſſed at *f*. See *Liſter on Goddart*, *page* 131. *No* 139.



To John Acton of Basingstoke in Hantshire Esq.
This Plate is Humbly Dedicated by Eleaz.r Albin

E. Albin del. Halett Sculp.





To Sr. David Hamilton Physician to ye Princess, & F.R.S.
This Plate is humbly dedicated by Eleazr. Albin

The DESCRIPTION *of the Sixty Second* PLATE.

THE CATERPILLAR, *a*, in this *Table*, was of a muddy Green ſpotted with White. It was found feeding on an *Oak* in *Cain Wood* the 27th of *May*; it ſpun up on the 30th of the ſame *Month*, and changed into a *Chryſalis*, *b*, and the 22d of *June* came the *Moth* of an Olive Colour ſpotted with Brown, *c*, *d*.

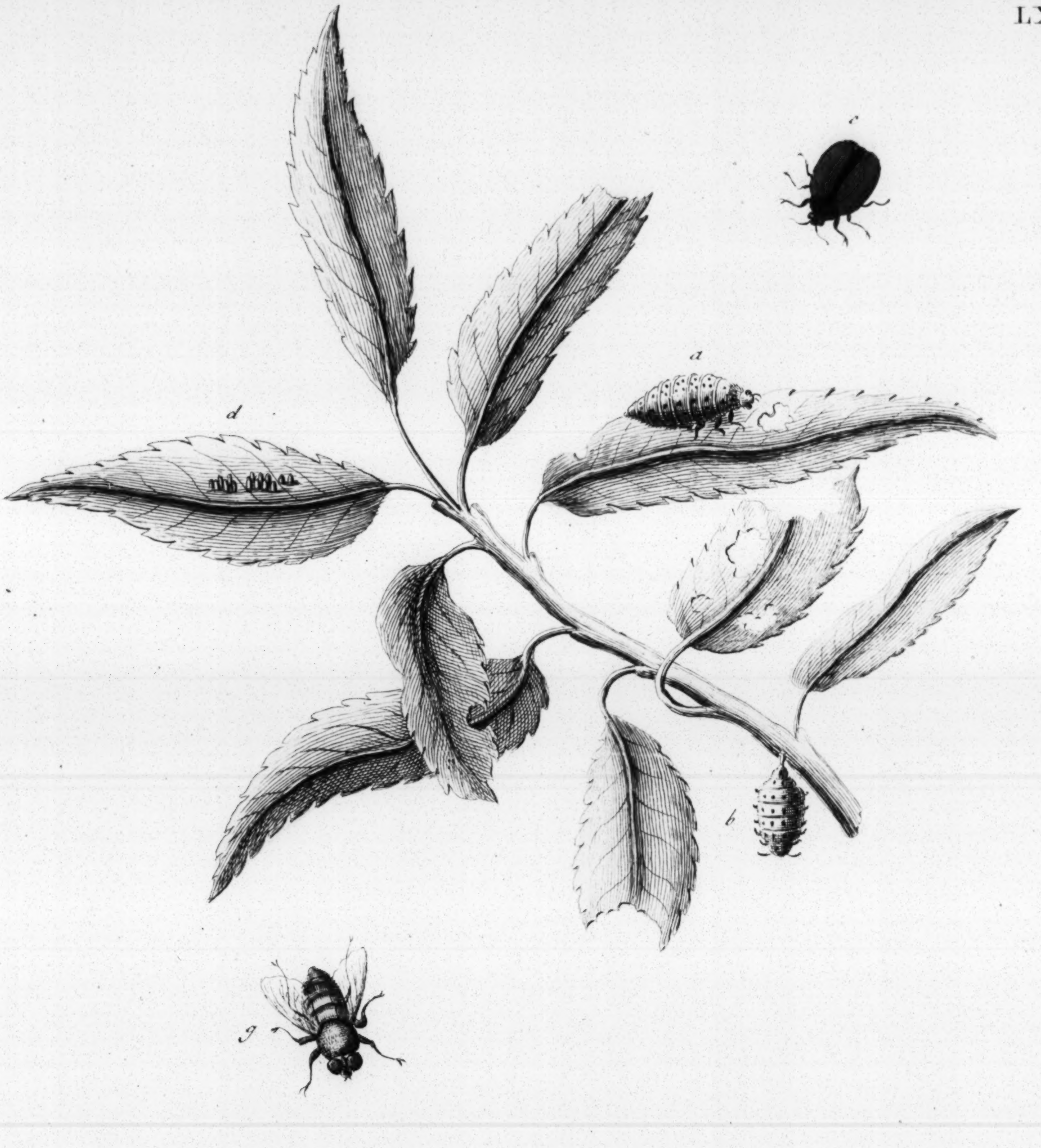
Theſe black CATERPILLARS of the *Ichneumon* Kind, *e*, were found feeding on the *Turnip Leaves* in the Beginning of *September* 1719, they being ſo numerous at that time about *London*, that they deſtroyed whole Fields of them: about the latter end of *September* they went into the *Earth* and ſpun themſelves up in a tranſparent *Caſe*, and changed into a *Chryſalis*; and in *May* following came forth a ſmall *Ichneumon Fly*, figured in the *Table* at *g*.

The DESCRIPTION *of the Sixty Third* PLATE.

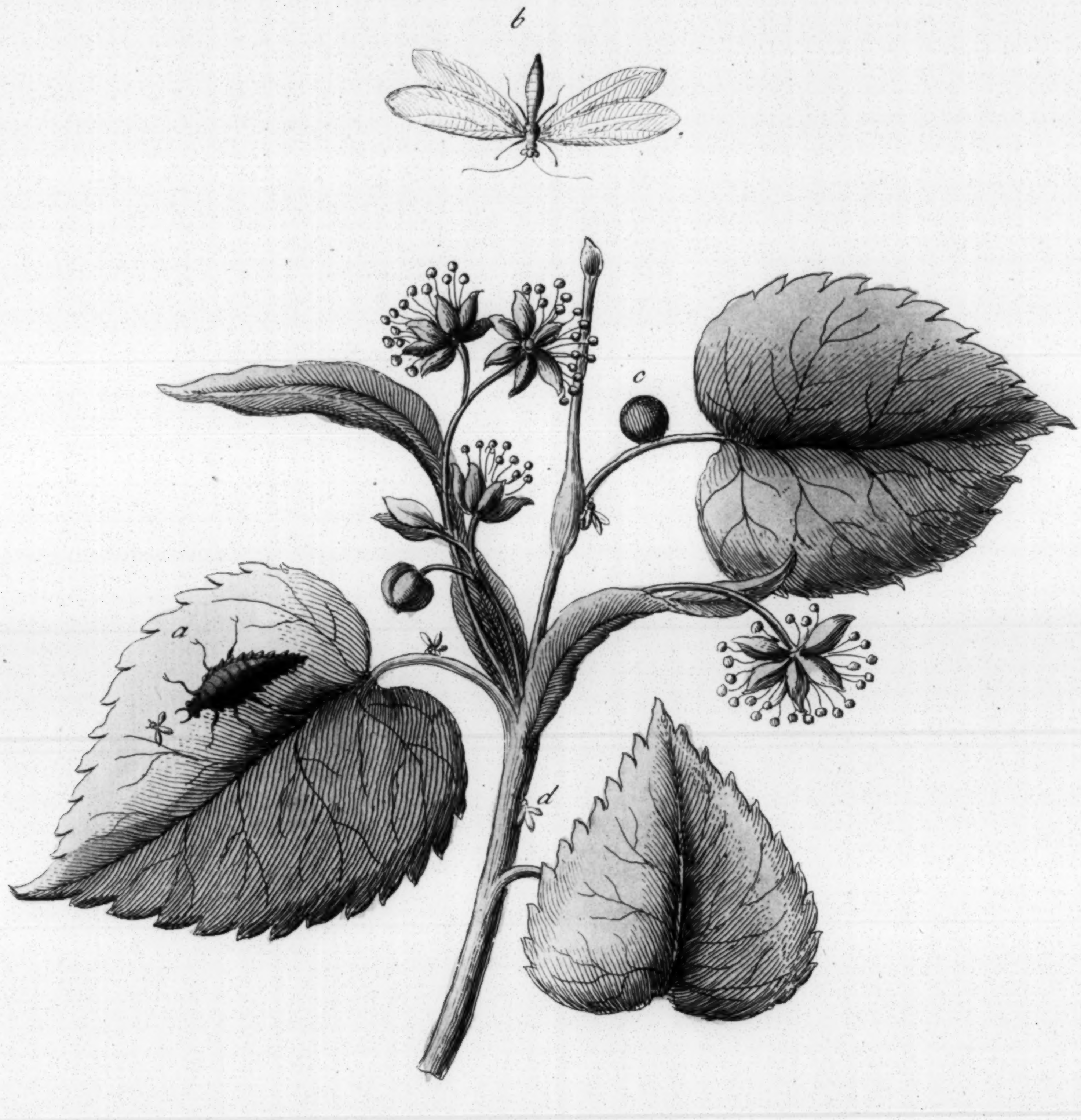
THE yellowiſh *Grub*, *a*, on the *Leaf* was ſpotted with Black. It was found on the *Dutch Willow* about the 20th of *June*, and changed into *Chryſalis*, *b*, the next Day; and the 5th of *July* came a large red *Beetle*, *c*, which lays *Eggs* of a Cream Colour longiſh and ſtanding upright on the *Leaf*, *d*.

The *Maggot*, *e*, is commonly found in *Privies* and corrupt Water of *Sinks*. I obſerv'd it to have fourteen ſmall Protuberances on the *Belly* like *Feet*, by which it climbs up into a Reſting-place when fit for Change; I believe it makes uſe of its long *Tail* in guiding it ſelf in the Water. It changed into *Chryſalis*, *f*, about the latter End of *Auguſt*, and remained juſt fifteen Days in that State, before the *Fly*, *g*, came forth, which repreſents one of the *Bee* Kind.

LXIII



To the Honourable Mrs. Thynne
This Plate is humbly dedicated by Eleazr. Albin



To Vice Chamberlain Cook

This Plate is humbly dedicated by Eleaz^{r}. Albin

The DESCRIPTION *of the Sixty Fourth* PLATE.

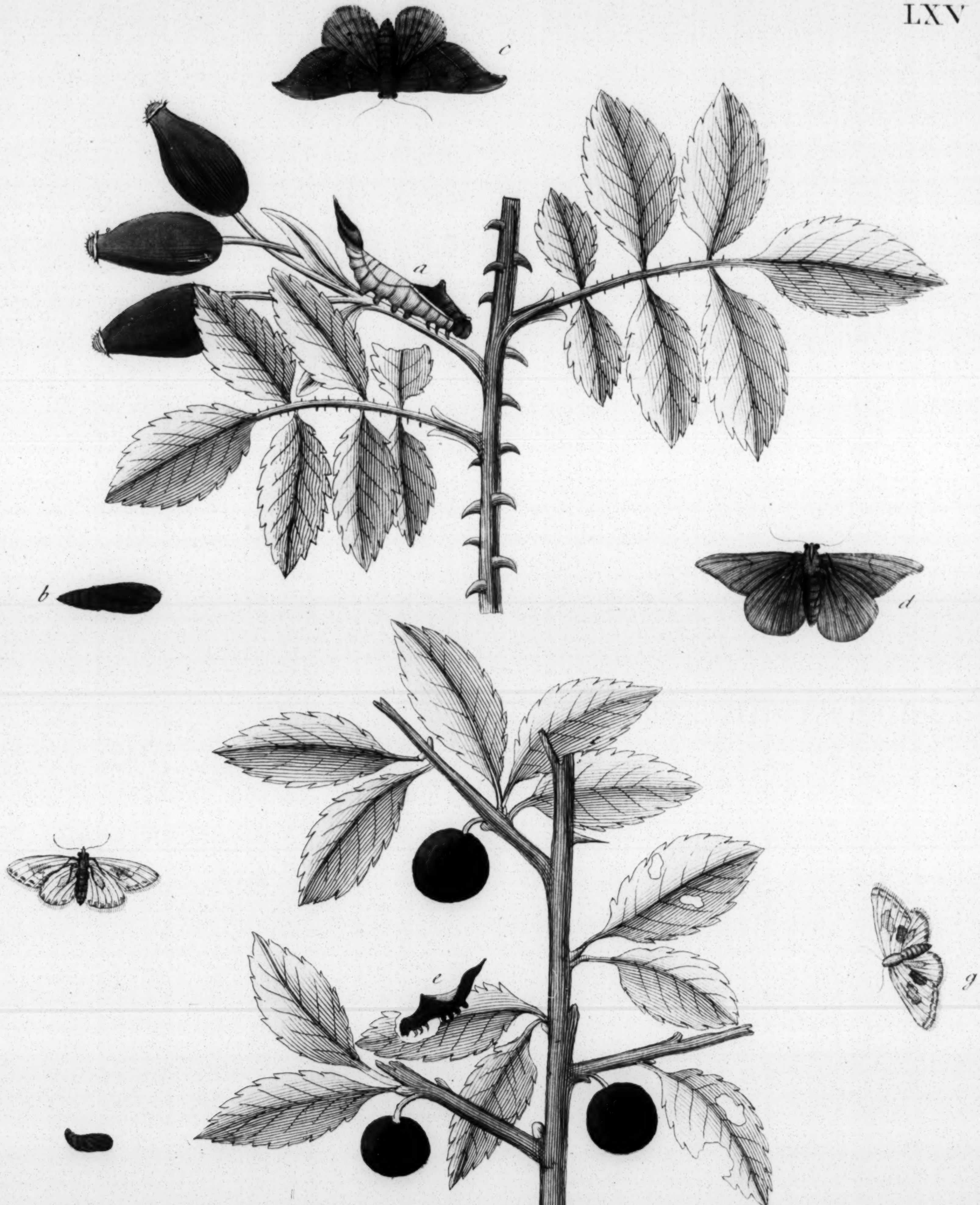
THE *Hexapode Worm* on the *Leaf*, at *a*, was browniſh. It was found on the *Lime-Trees* at the latter End of *July*, and fed on ſmall *Flies* in the ſame Manner of the *Worm*, *a*, of the ſixty firſt *Table*; on the ſecond of *Auguſt* it ſpun it ſelf up in a white *Silken Caſe* like that of a *Spider*'s Egg, and the 16th of *May* following came the *Green-Golden-ey'd Fly*; it having the moſt beautiful *Eye* of any *Inſect* that I have yet ſeen. His *Wings* are very remarkable for their Tranſparency and bright Colouring in them like that of a *Rainbow*, and when viewed with the *Microſcope*, the Edges and every Diviſion of the *Wings* are beſet with long *Hairs*. I have obſerved in the Woods two Kinds more of them, the one of a dark Purple, and the other of a blueiſh Green. See *Liſter on Godart page* 93. *N*° 104.

The DESCRIPTION *of the Sixty Fifth* PLATE.

THE CATERPILLAR, *a*, was Fleſh coloured, having a large *Gibboſity* on its *Back*. It was found near *Hornſey* Wood on the *wild Roſe*, and another of the ſame kind on the *Oak*. They ſpun themſelves up in the *Leaves* folded together with a *white Web*, and changed into *Chryſalis*, *b*, and about the middle of *May* came a *Moth* expreſs'd at *c*, *d*.

The CATERPILLAR, *e*, was of a dark Red, and had a *Gibboſity* on its *Back* like the former. It was found on the *Black Thorn* the 3d of *September*, and the 8th of the ſame *Month* it ſpun it ſelf up in a Copper-colour'd *Web*; the *Moth*, *g*, *h*, came the 3d of *March*. I had others of them that did not come till the middle of *May*.

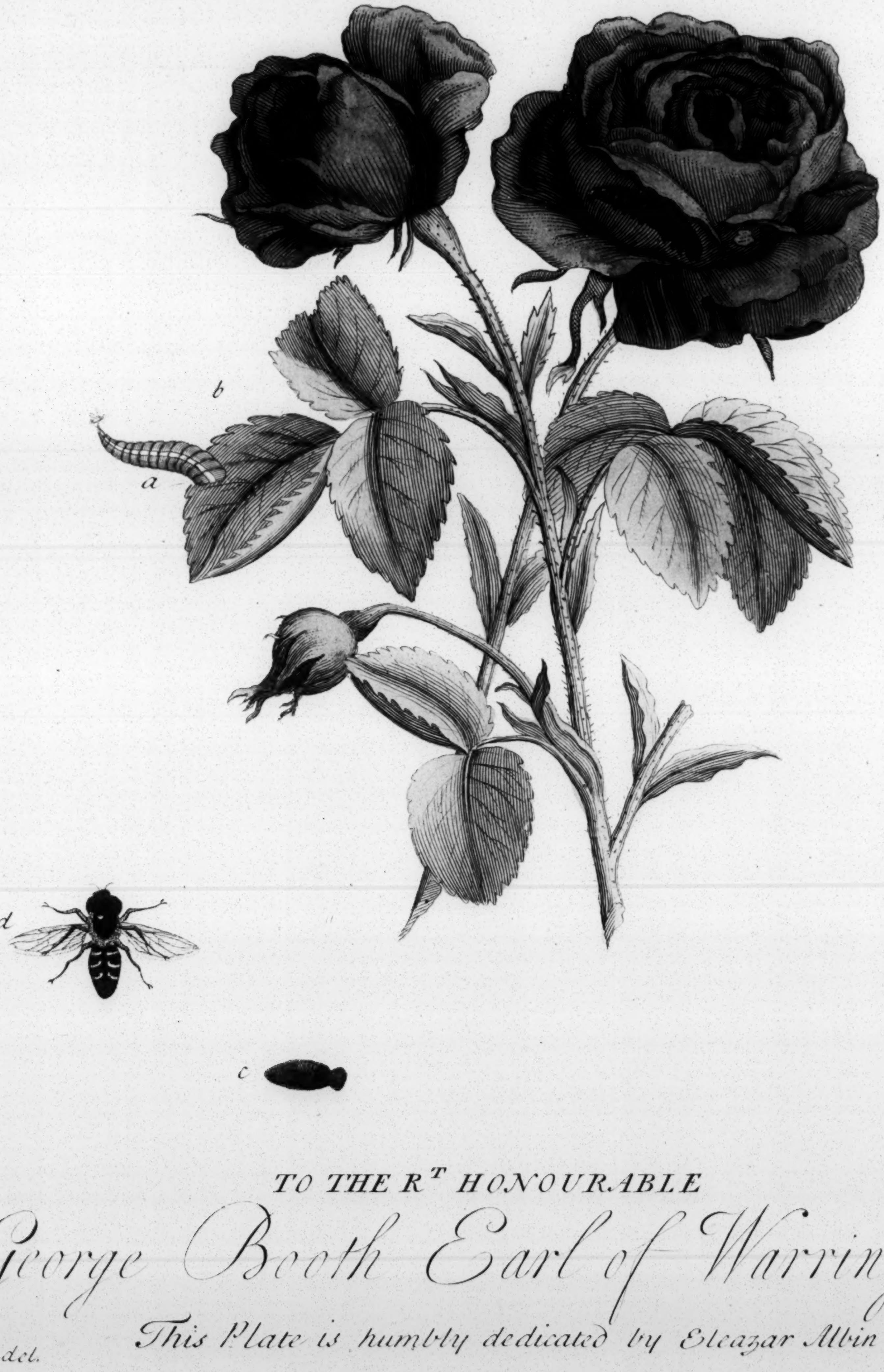
LXV



To the Honorable Thomas Trevor Esq.

This Plate is humbly dedicated by Eleaz. Albin.

E. Albin delin. Bulett Sculp.



TO THE R^{T} HONOURABLE

George Booth Earl of Warrington

This Plate is humbly dedicated by Eleazar Albin.

Albin del. *Hulett Sculpsit*

The DESCRIPTION *of the Sixty Sixth* PLATE.

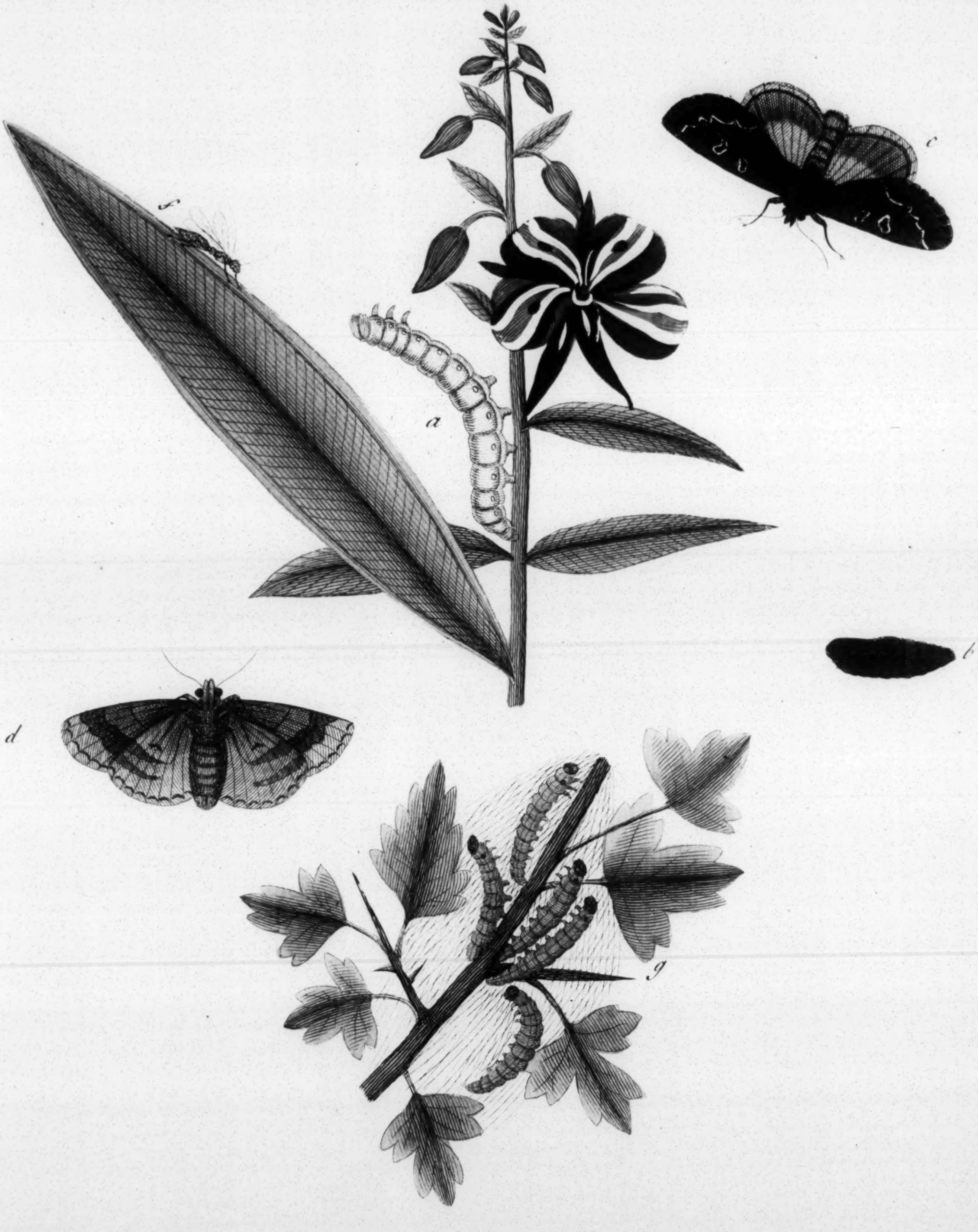
THIS *Maggot, a,* on the *Leaf,* was Green with a Stripe of White on its *Back.* It was found on the *Roſe Tree* feeding on ſmall *Inſects* which live in the Froth that is found on that and divers other Plants; its way of feeding is thus, it having no *Feet* it faſtens it ſelf to the *Leaf* by the *Tail,* which is broad and flat like that of a *Leach,* and ſeizes its Prey with its *Proboſces,* then lifting up its *Head* ſucks them till there is nothing left but their Skins. It changed into *Chryſalis, c,* the 22d of *June,* and the *Fly, d,* came the 10th of *July.* The *Fly* of theſe *Maggots* ſeems to be apprehenſive of the Want of *Feet* in the young *Embryo,* and lays her *Eggs* near the Place where the *Flies* are thickeſt on the *Plants.*

The Description *of the Sixty Seventh* Plate.

The Caterpillar, *a*, in this *Table* was Green. It was found on the *Roſe-Bay Willow Herb* the 30th of *July*, and the 4th of *Auguſt* it went into the *Ground* and changed into a *Chryſalis*, *b*, and the 16th of *January* came the *Moth*, *c*, *d*; from one of theſe Caterpillars came the *Ichneumon*, *f*.

The Caterpillars at *g*, were Orange Colour, their *Heads* black with a Spot of the ſame on the firſt *Joint*. I believe them to be of the *Ichneumon* Kind having more *Holders* than the common Caterpillars. I found them the 10th of *June* on a *White-thorn* near *Peckham*; they eat in their *Web*, ſpinning it further as they want Food. They went into the *Ground* the 20th of the ſame *Month*, but could not be hatched with all the Care I could take. I found ſome of the ſame 2 Years after on a *Pear Tree*, and tryed to preſerve them by putting them in a *Bottle* in a hole in the *Ground* to keep them moiſt, but a Flood of *Water* coming drowned all my Hopes.

LXVII

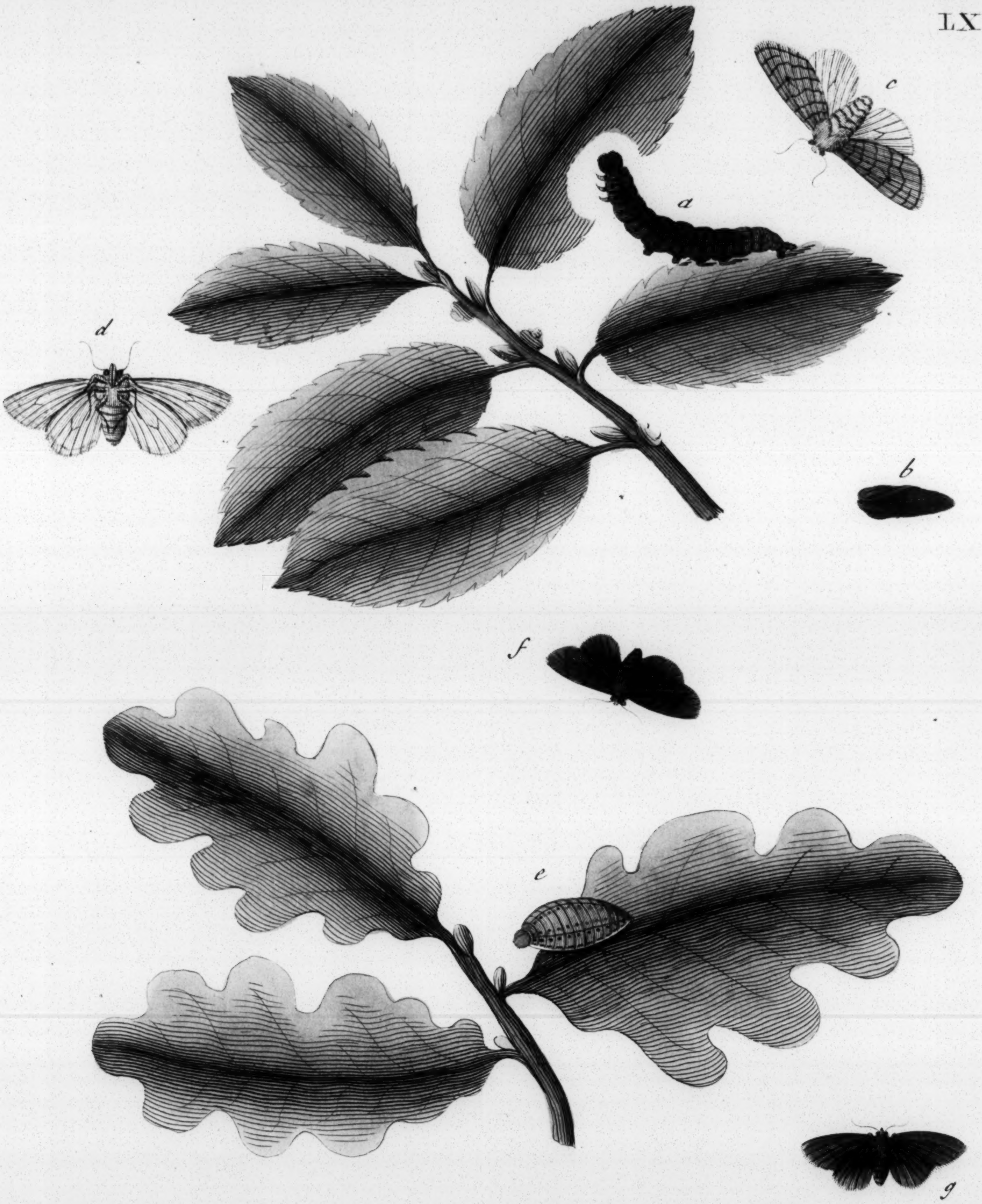


To John Henric: Linck at Leipsick Apothecary & Reg: Societ: Socio
This Plate is humbly dedicated by Eleazar Albin.

E. Albin del.

Bulitt Sculp

LXVIII



To Dr Richard Richardson of North-Bierley, near Bradford, Yorkshire.
This Plate is humbly dedicated by Eleazr. Albin.

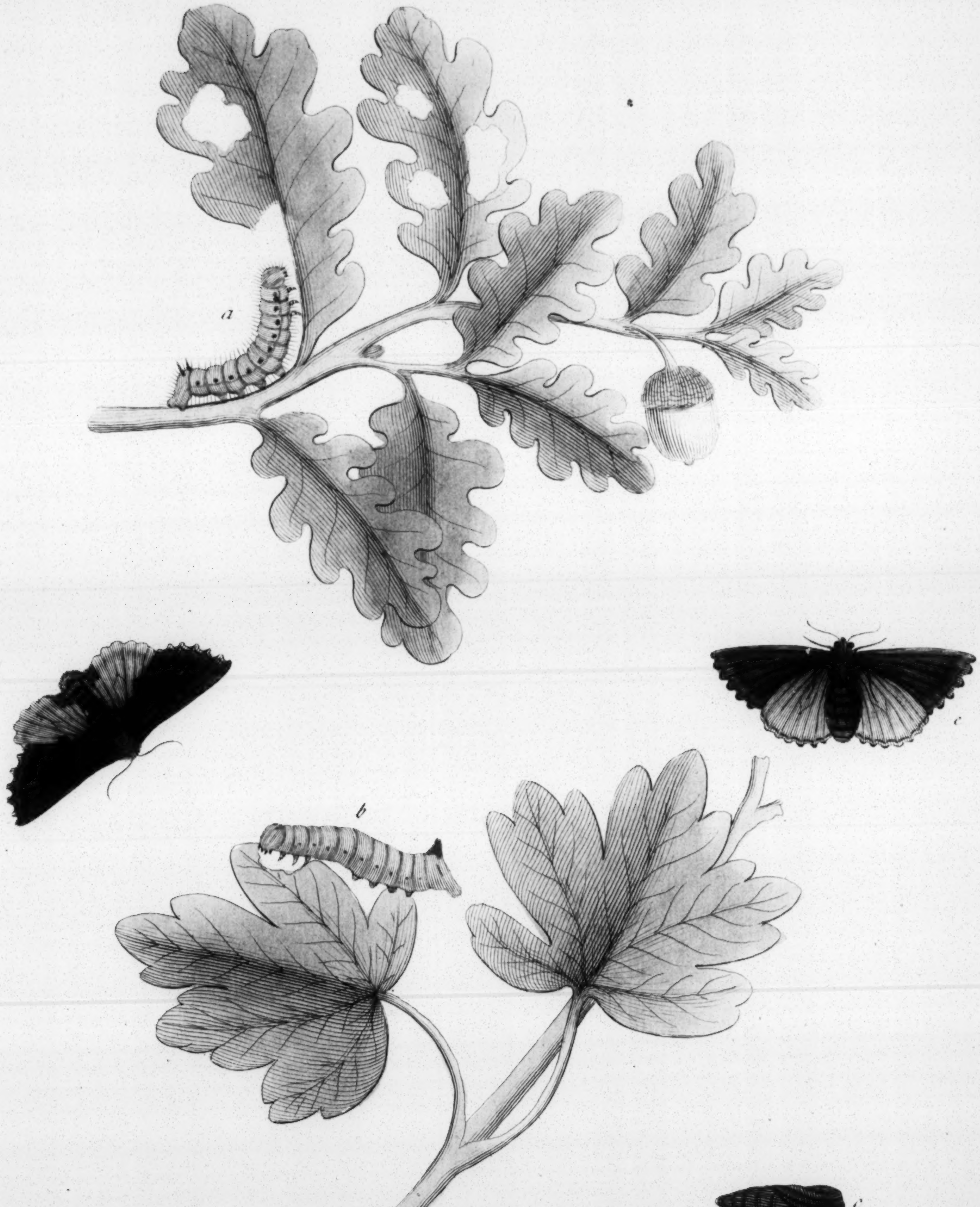
The DESCRIPTION *of the Sixty Eighth* PLATE.

THE CATERPILLAR, *a*, in this *Table* was of a dark Colour, the *Head* red. It was taken on the *Sallow* near *Hornſey Wood* about the middle of *May*, and on the 26th of the ſame *Month* it went into the *Ground* and changed into a *Chryſalis*, *b*, the *Moth* came the 13th of *September*, the *upper Wings*, *c*, Yellow, the *under Wings* and *under Side*, *d*, of a pale Cream Colour.

The CATERPILLAR, *e*, was Green and ſpotted with Red; I could not perceive it had any *Feet*; the *Belly* ſeemed wet or ſlimy like that of a *Snail*, it crept on the *Leaves* after the ſame manner. It was taken on the 2d of *September* on the *Oak*, and fed till the 20th; it then ſpun up in the *Leaves*, and the 29th of *May* came the *Moth* expreſſed at *f*, *g*, in the *Table*.

The DESCRIPTION *of the Sixty Ninth* PLATE.

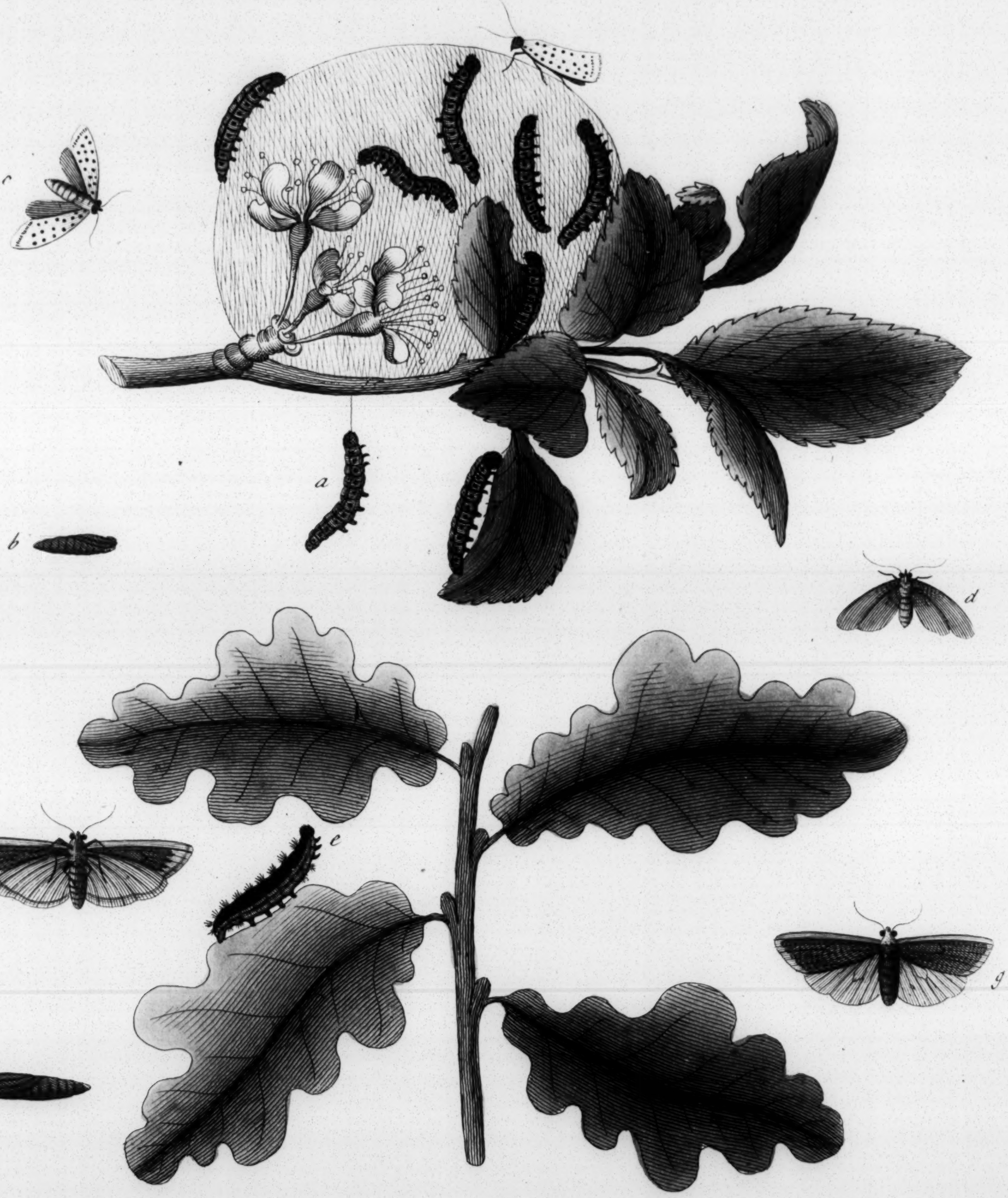
THE two CATERPILLARS in this *Table* are of one Species though differently marked; the firſt, at *a*, was Green ſpotted with Red. It was found on the *Oak* the 5th of *October*. The other, at *b*, was Green with a red Protuberance on its *Tail*. It was found on the *Maple* near *Highgate* the 20th of *September*; when it ſtood ſtill, it always lifted up its *hinder Part*. They went into the *Ground* at the End of *October*, and about the latter End of *February* came the *Moth* expreſt at *d*, *e*.



TO THE R^{T}. HONORABLE

John Lord Percevale

this Plate is humbly dedicated by Eleazar Albin.



To Mrs Elizabeth Bridges of Soho Square
This Plate is humbly dedicated by Eleazr. Albin

The DESCRIPTION *of the Seventieth* PLATE.

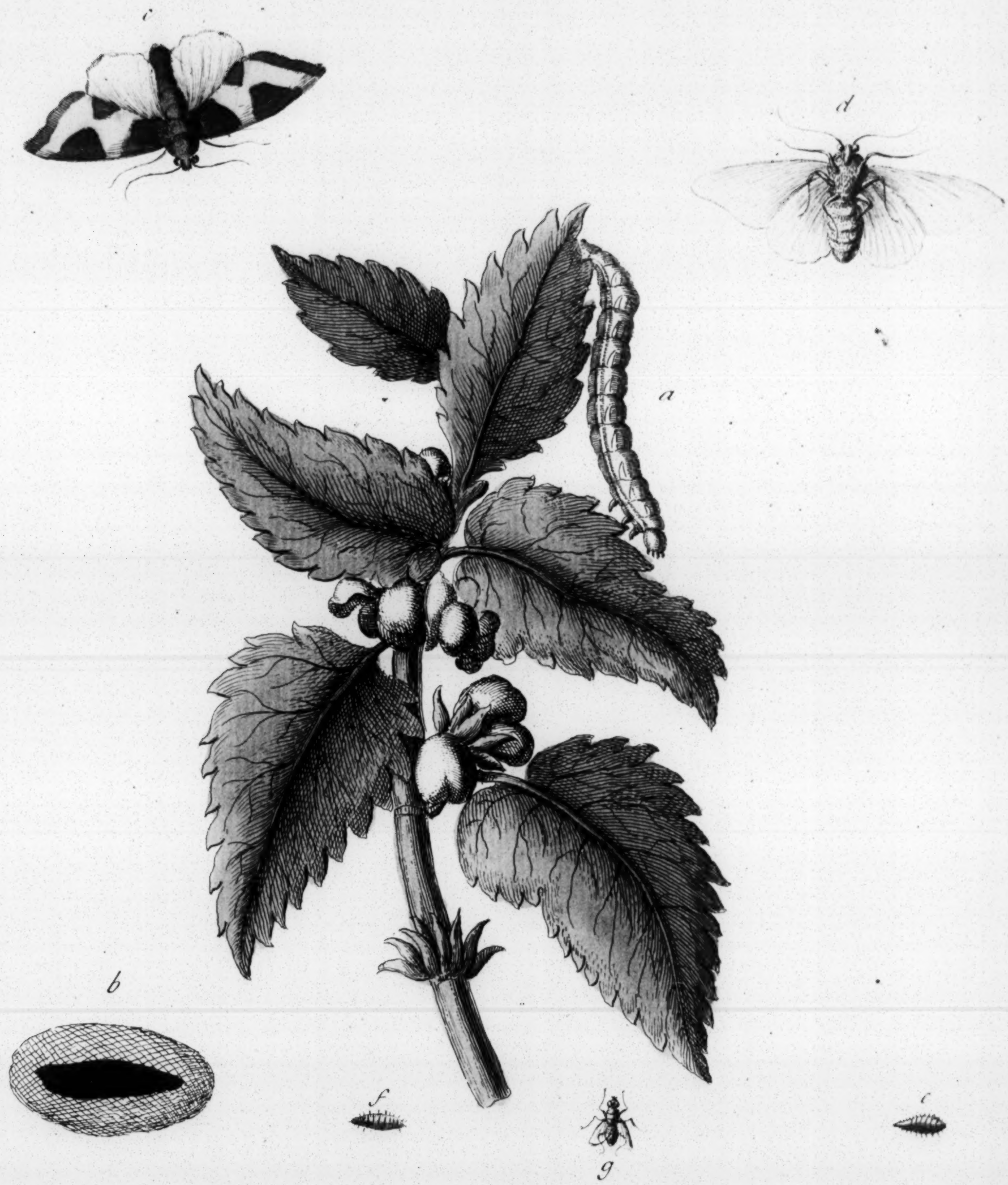
THE black CATERPILLARS of this *Table*, at *a*, fed in a *Web* together on *Black Thorn*, *White Thorn*, and *Plumb Tree*. They were found at the latter end of *May*, and changed into *Chryſalies* the beginning of *June*, and the 20th of the ſame *Month* came the *Moth*, *c*, *d*, commonly called the *Ermine*.

The CATERPILLAR, *e*, was brown on the *Back*, the *Belly* Aſh Colour parted from the Brown by an Orange-colour'd *Stripe*, its *Head* Black. It was found on the *Oak* the 26th of *May*: it ſpun up the 15th of *June* and changed into *Chryſalis*, the *Moth* came the 10th of *July*, *g*, *h*.

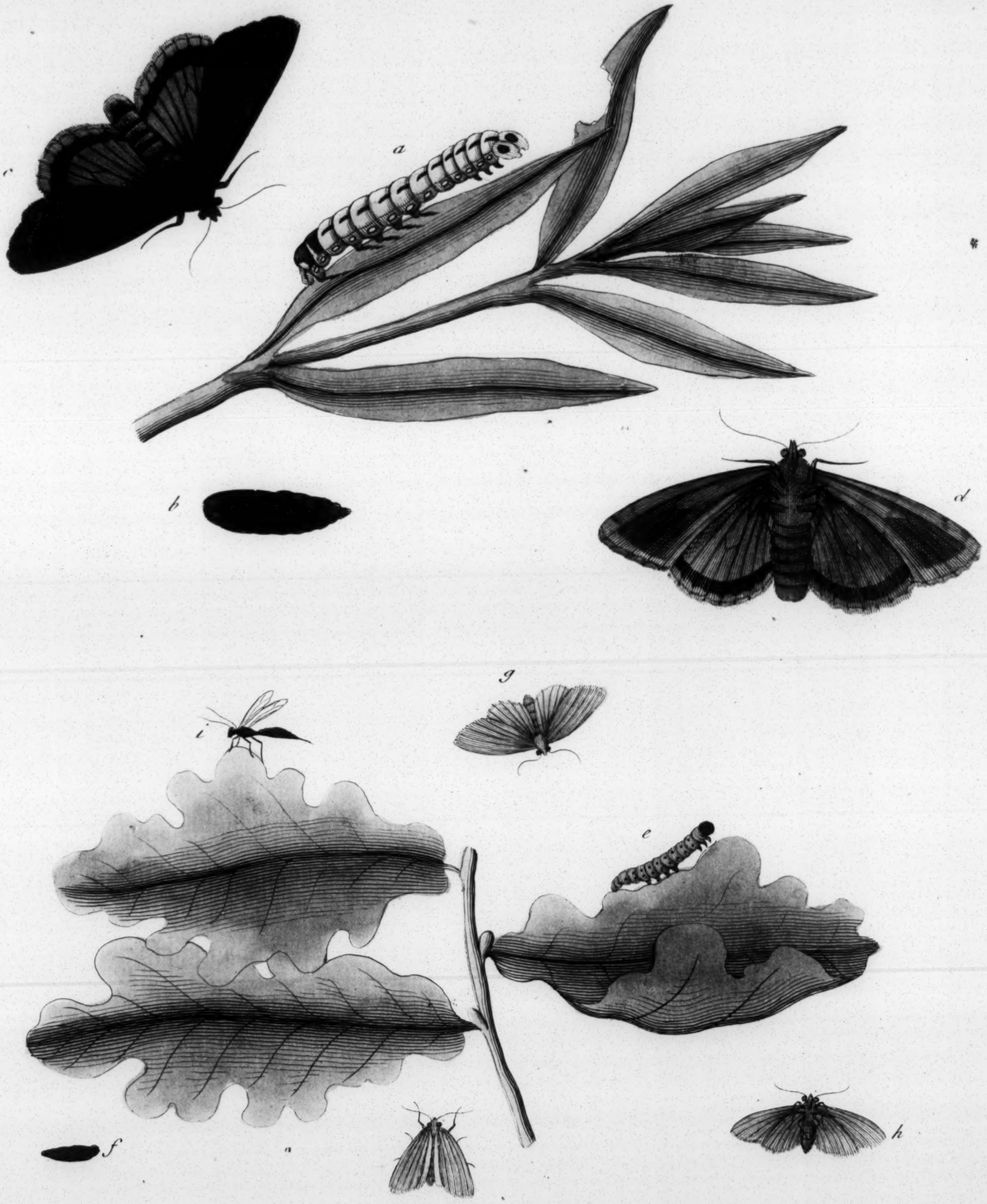
The DESCRIPTION *of the Seventy Firſt* PLATE.

THE CATERPILLAR in this *Table*, at *a*, was Green ſtriped with White. It was found on the white *Archangel* in the Beginning of *July*, and about the middle of the ſame *Month* it ſpun it ſelf up in a tranſparent *Web*, and changed into a *Chryſalis*, *b*; the 20th of *Auguſt* came the *Moth*, *d*, the dark Shades of the *upper Wings* is browniſh, the light parts like burniſhed *Braſs*, the *under Wings* and *under Side* of a Hair Colour.

The ſmall *Maggot*, at *e*, was of a browniſh Colour full of *Briſtles*. It was taken in *Rabbet*'s *dung* in the middle of *October*, and at the end of the ſame *Month* it changed, the *Briſtles* remaining on the *Chryſalis*, *f*, and in the middle of *March* came the ſmall *Houſe-fly*, *g*.



TO THE MOST NOBLE
James Duke of Chandois
This Plate is humbly dedicated by Eleaz. Albin.


c
a
b
d
g
i
e
f
a
h

To Mrs Rachel Schutz Wife of the Hon: Col. John Schutz

This Plate is humbly dedicated by Eleazr Albin.

The DESCRIPTION *of the Seventy Second* PLATE.

THE CATERPILLAR, *a*, in this *Table* was of a light Brown ſpotted with Black and White. It was found feeding on the *ſweet Williams* in a Garden near *Hackney*, on the 4th of *May*, and the 10th of the ſame *Month* it went into the *Ground* and changed into *Chryſalis*, *b*, and the 10th of *June* came the *Moth* commonly called the yellow *under Wing*, *c*, *d*. See *Liſter on Godart*, *page* 52. *N*° 41.

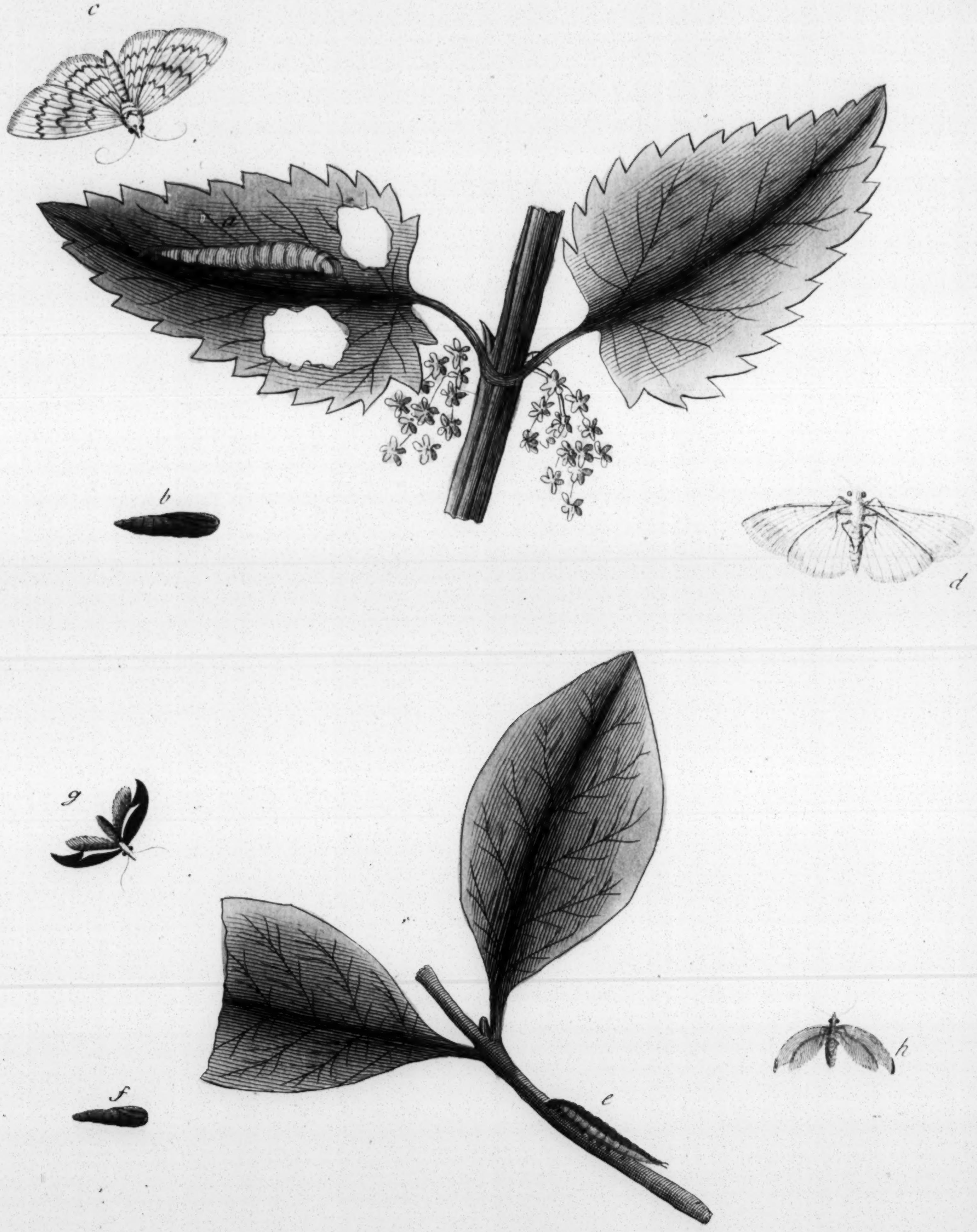
The CATERPILLAR, *e*, in this *Table* was Green, and ſpotted with Black. It was found folded up in the *Leaves* of the *Oak* the 24th of *May*, and the 27th of the ſame *Month* it ſpun it ſelf up and changed into a *Chryſalis*, *f*; the *Moth*, *g*, *h*, came the 18th of *June*. It was of a beautiful green Colour. From ſome of theſe CATERPILLARS came the *Ichneumon* figured at *i*, in the *Table*.

The DESCRIPTION *of the Seventy Third* PLATE.

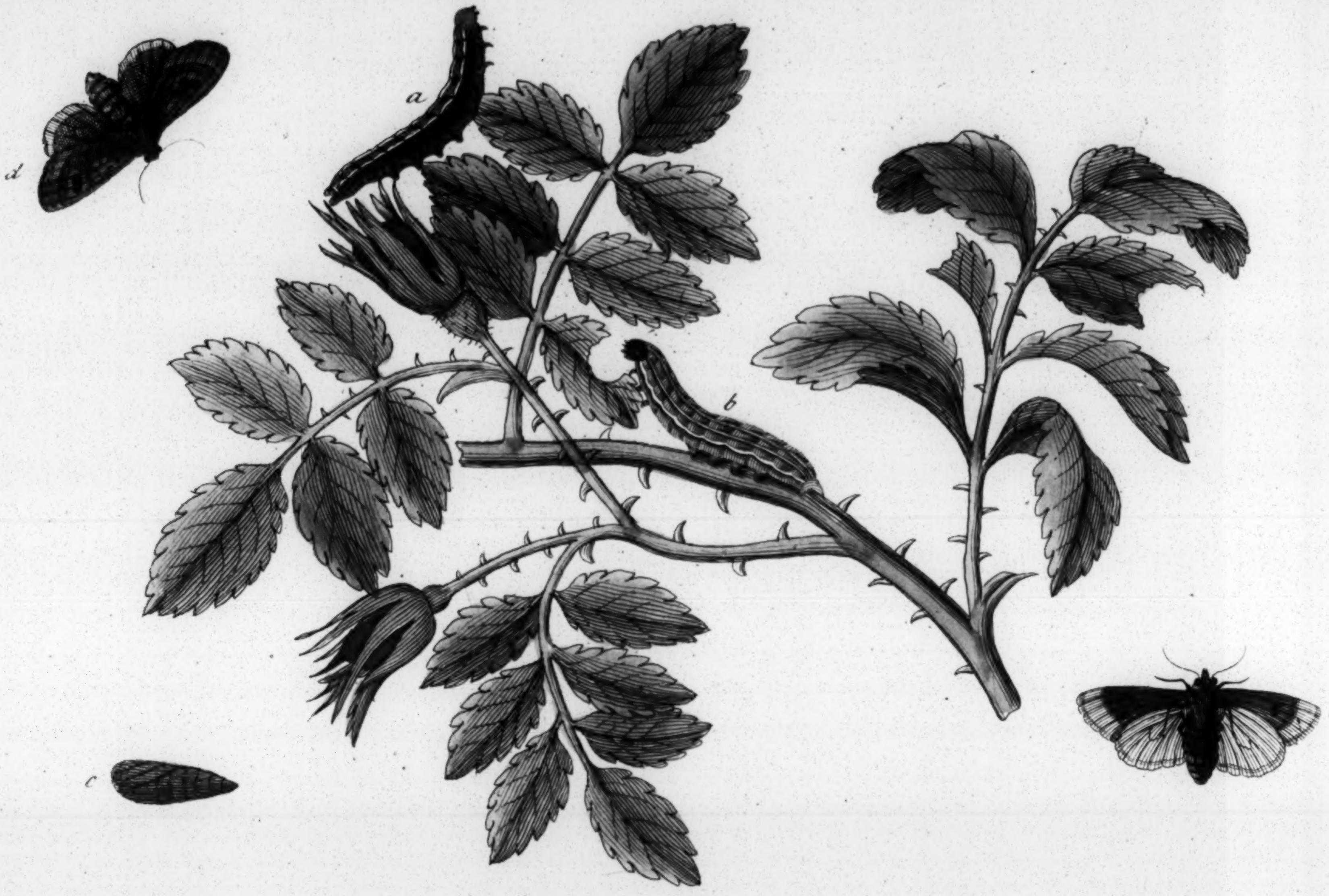
THE CATERPILLAR, *a*, in this *Table* was of a light Green. It was found folded up in the *Leaves* of the great *Nettle* at the end of *May*, it fed after the ſame manner of the CATERPILLARS in *Table* 37. It changed into a *Chryſalis*, *b*, in the Beginning of *June*, and in fourteen Days came a beautiful *Moth*, *c*, *d*.

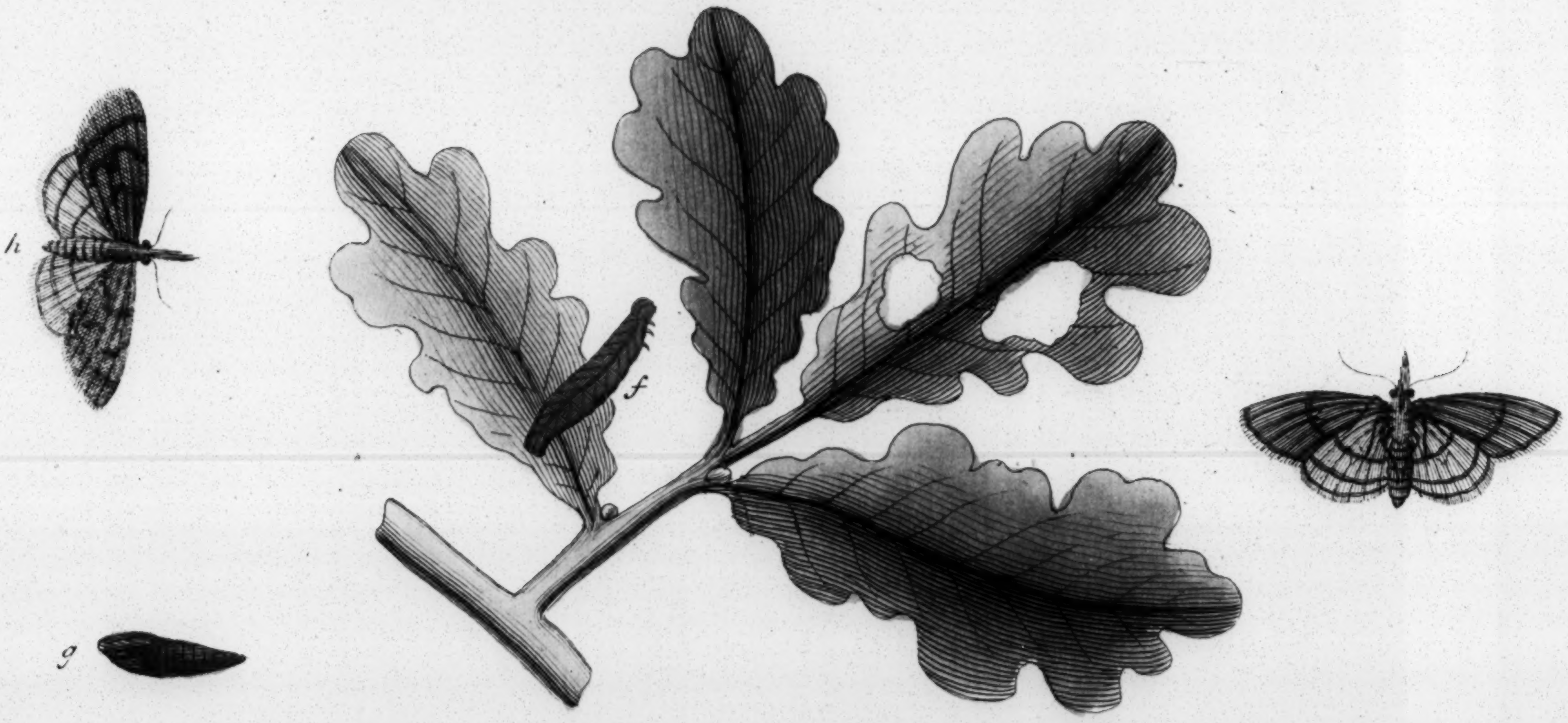
The *Head* and *Back* of the CATERPILLAR, *e*, was of a pale Roſe Colour, the *Belly* Green. It was found folded up in the *Woodbine Leaves* near *Hornſey-wood* on the 22d of *May*. It was one of the nimbleſt CATERPILLARS I ever met with, for if you touch'd it never ſo little, it would leap about like a mad thing; It ſpun up the Day after it was taken, and changed into a *Chryſalis*, at *f*, and the *Moth* *g*, *h* came the 14th of *June*.

LXXIII



To Brook Bridges Esq.r
This Plate is humbly dedicated by Eleaz.r Albin





Al Rev.^{mo} Prē. Don Bruno Tozzi
Procuratore generale della Congregatione di Valombrosa
Reg: Societ: Socio.

The DESCRIPTION *of the Seventy Fourth* PLATE.

THE CATERPILLARS, *a*, *b*, were differing in Colour, ſome Brown and Green, others Red and Green. They were found on the *wild Roſe* the 20th of *May* near *Hornſey-wood*, I had four of them in a *Box*, and looking on them half an Hour after they were put in, found but two; and obſerving them more ſtrictly ſaw one of them devour the other in a ſmall ſpace of Time: that which remain'd went into the *Earth* in the *Box*, and changed into *Chryſalis*, *c*, and the 21ſt of *February* came a browniſh *Moth*, *d*, *e*.

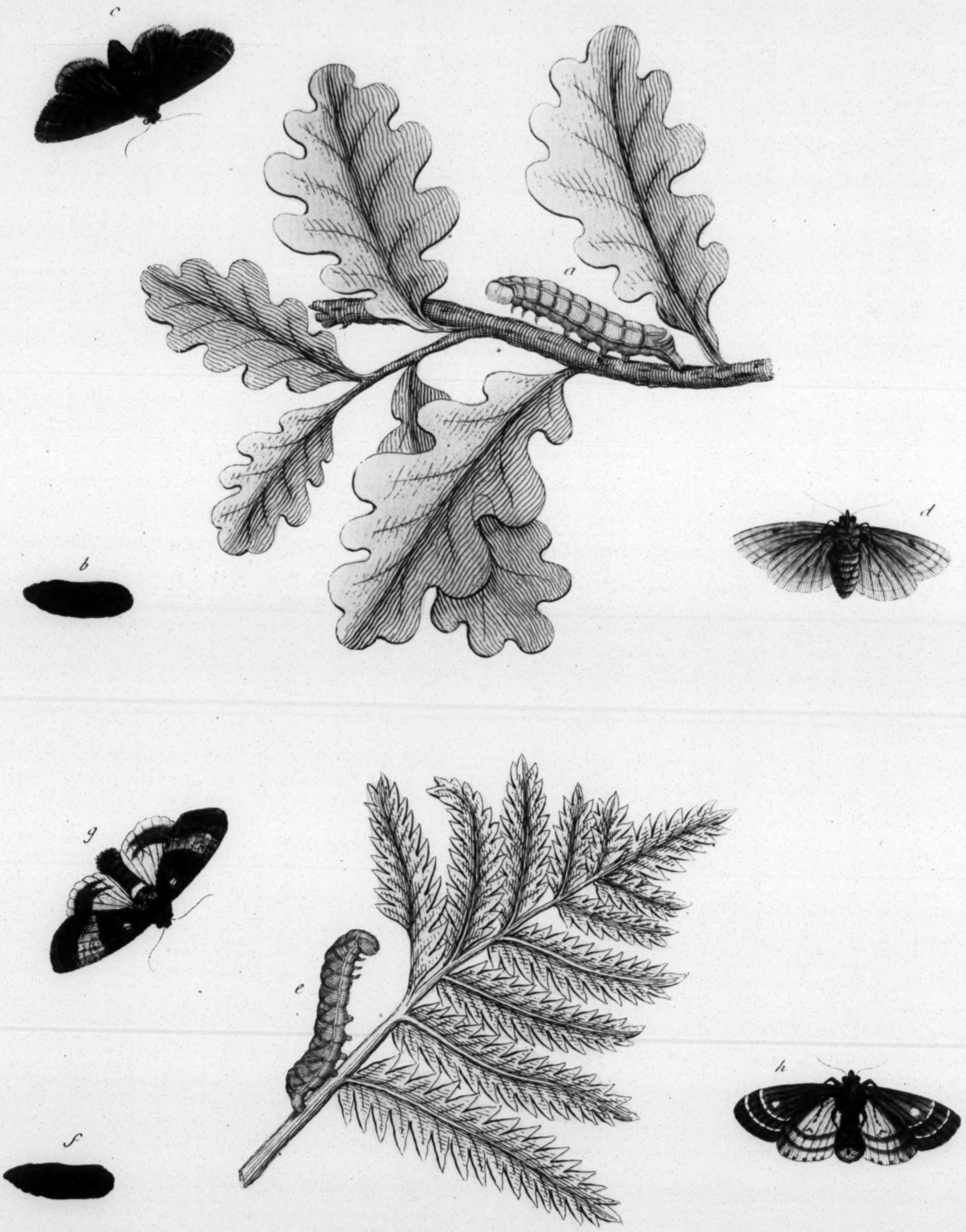
The CATERPILLAR, *f*, is Brown. It was found on the *Oak* the 2d of *September*, and towards the latter End of the ſame *Month* it changed into *Chryſalis*, *g*, and the 13th of *April* came the *Moth*, *h*, *i*.

The DESCRIPTION *of the Seventy Fifth* PLATE.

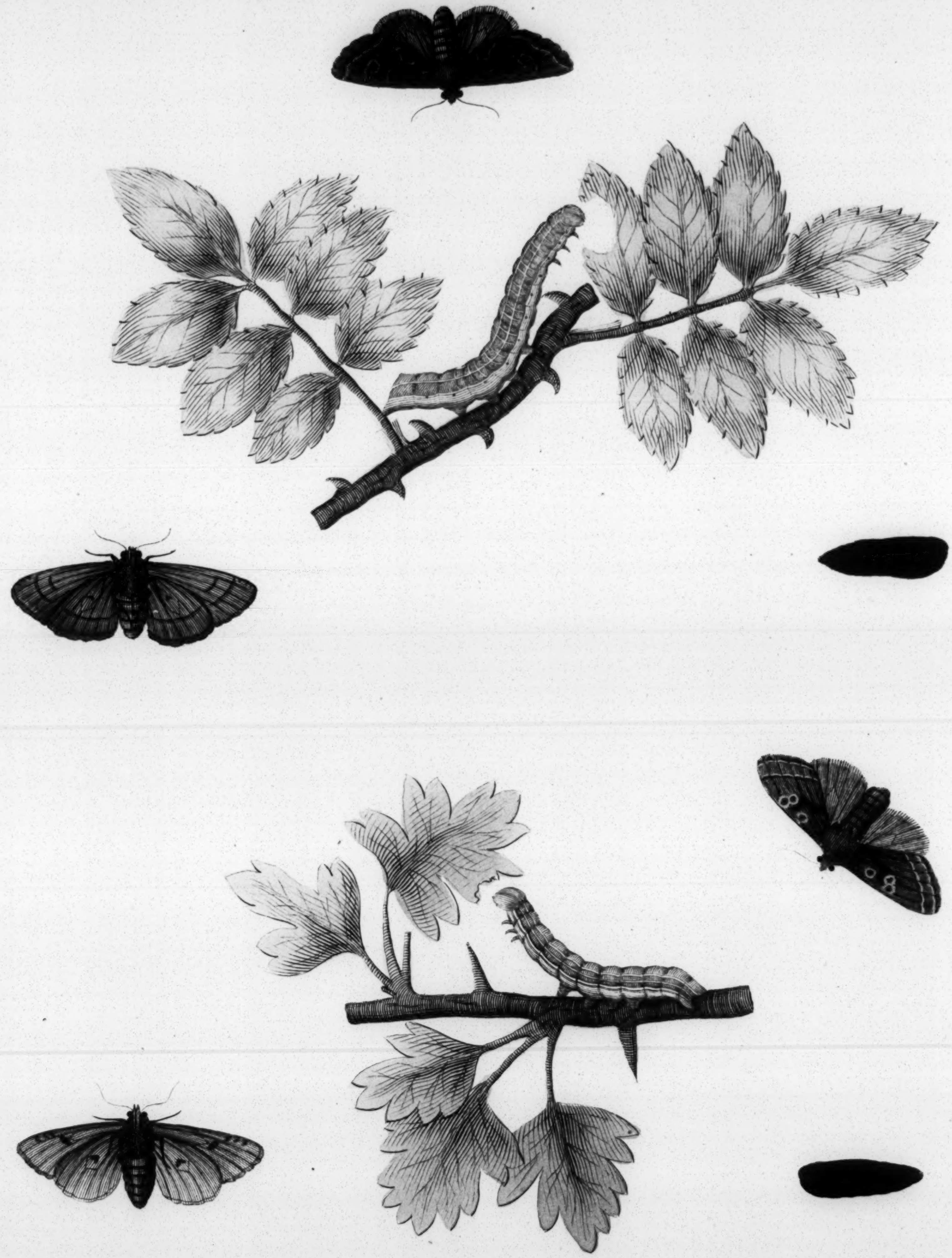
THE CATERPILLAR, *a*, in this *Table* was of a yellowiſh Green, the *Head* blueiſh. It was found feeding on the *Oak*; (I have likewiſe found of them on the *Haſle*; and on the *Lime-trees* in *St. James*'s *Park.*) It went into the *Ground* the 19th of *June* and changed into *Chryſalis*, *b*; and the 10th of *February* came the *Moth*, *c*, *d*.

The CATERPILLAR, *e*, was of a pale Green. It was found feeding on the *Female Fern* the 2d of *September* by the *Wood* Side near *Charlton* in *Kent*, and the 13th of the ſame *Month* it went into the *Ground* and changed to a *Chryſalis*, *f*; and about the latter End of *April* came the *Moth*, *g*, *h*.

LXXV



To William Le Grand of Maiden Early in ye County of Berks Esqr.
This Plate is humbly dedicated by Eleazr. Albin.



To the Honble. Brigadier John Langston
this Plate is humbly dedicated by Eleazar Albin.

The DESCRIPTION *of the Seventy Sixth* PLATE.

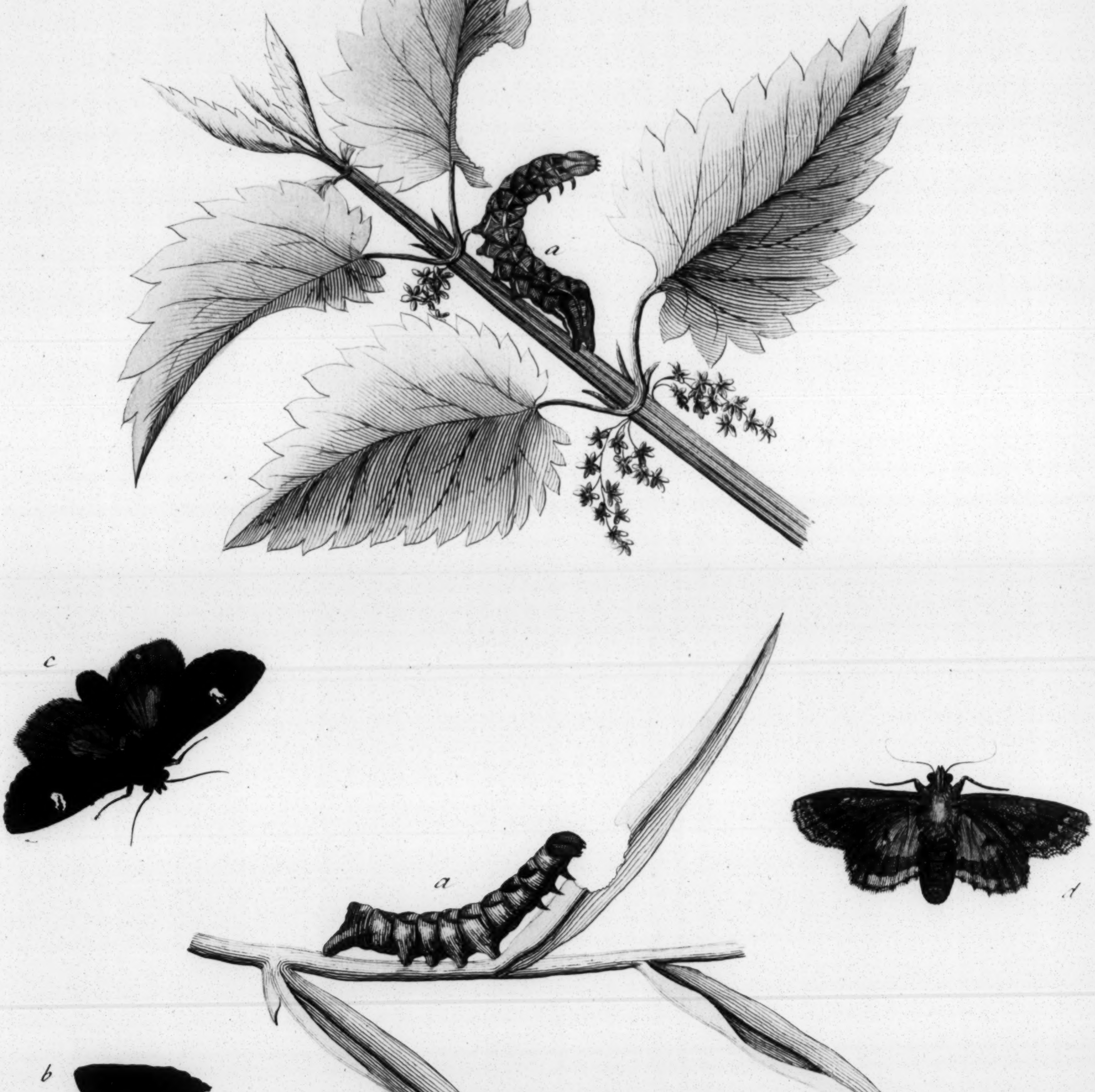
THE CATERPILLAR, *a*, in this *Table* was of a pale Green. It was found feeding on the *Briar* or *wild Roſe Tree* the 16th of *June*; and the 7th of *July* it went into the *Ground* and changed into *Chryſalis*, *b*, the 16th of *March* came the *Moth*, *c*, *d*.

The CATERPILLAR, *e*, was Green on the *Back*, and yellowiſh on the *Belly*. It was found on the *white Thorn* the 10th of *June* near the *boarded River*, and the 19th of the ſame *Month* it went into the *Earth* and changed into *Chryſalis*, *f*; and the 13th of *February* came the *Moth*, *g*, *h*.

The DESCRIPTION *of the Seventy Seventh* PLATE.

THE Green CATERPILLAR, *a*, on the *Nettle*, was found at the Beginning of *Auguſt*, and on the 24th of the ſame *Month* it went into the *Earth* and changed into a *Chryſalis*, *b*, and the Beginning of *May* came the *Moth*, *c*, *d*.

The yellowiſh CATERPILLAR was found feeding on the *Jacea nigra or Knap-weed* the 11th of *September*, and the 16th of the ſame *Month* it went into the *Earth* and changed into a *Chryſalis*, and produced a *Moth* like the the former, the *Body* and *upper Wings* very dark with a Spot of White in each, the *under Wings* and *under Side* of a Hair Colour.



To Mountague Gerrard Drake Esq.r

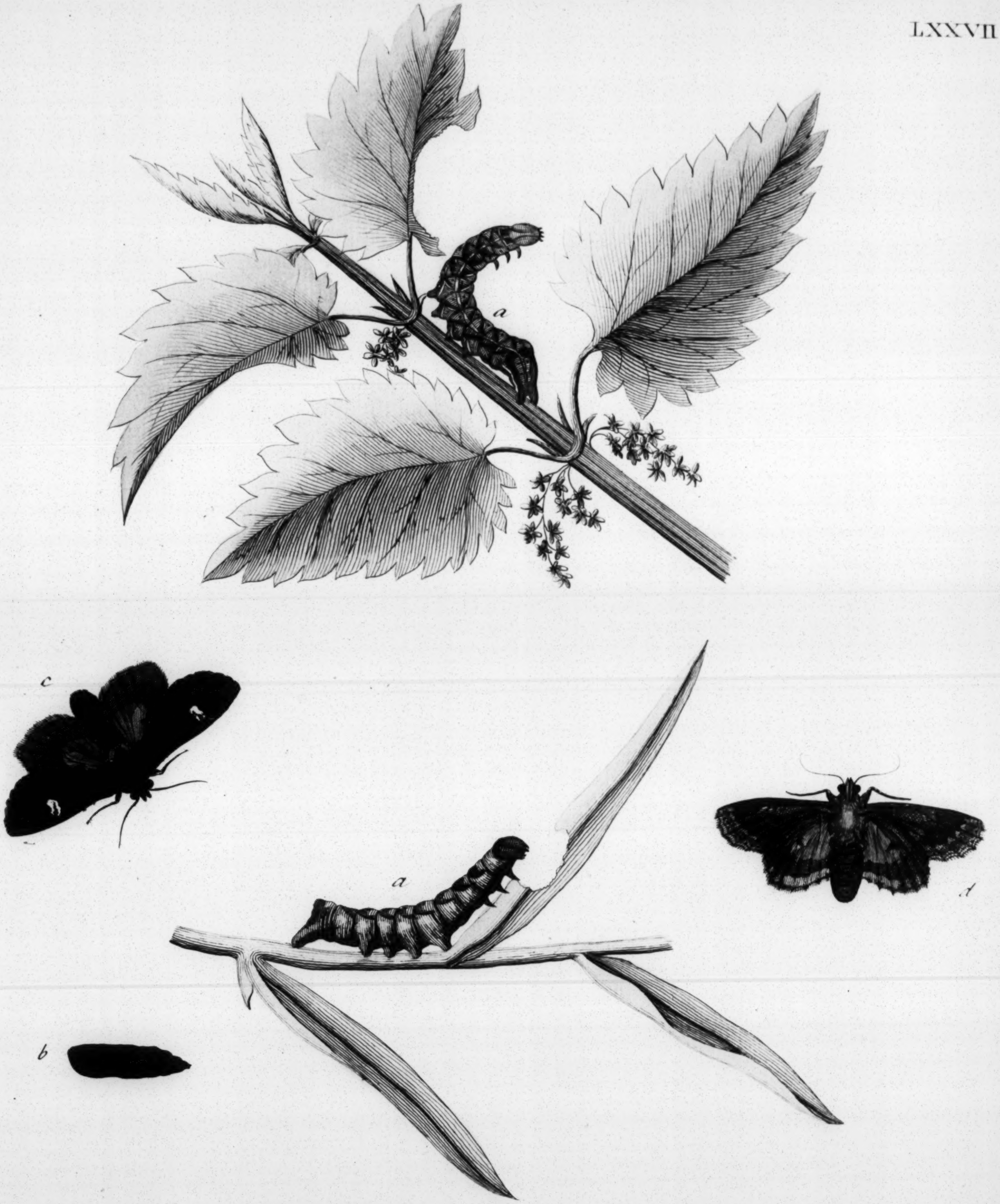
This Plate is humbly Dedicated by **Eleazar Albin.**

H. Teraſson, Sculp. Lon

The DESCRIPTION *of the Seventy Seventh* PLATE.

THE Green CATERPILLAR, *a*, on the *Nettle*, was found at the Beginning of *Auguſt*, and on the 24th of the ſame *Month* it went into the *Earth* and changed into a *Chryſalis*, *b*, and the Beginning of *May* came the *Moth*, *c*, *d*.

The yellowiſh CATERPILLAR was found feeding on the *Jacea nigra or Knap-weed* the 11th of *September*, and the 16th of the ſame *Month* it went into the *Earth* and changed into a *Chryſalis*, and produced a *Moth* like the the former, the *Body* and *upper Wings* very dark with a Spot of White in each, the *under Wings* and *under Side* of a Hair Colour.

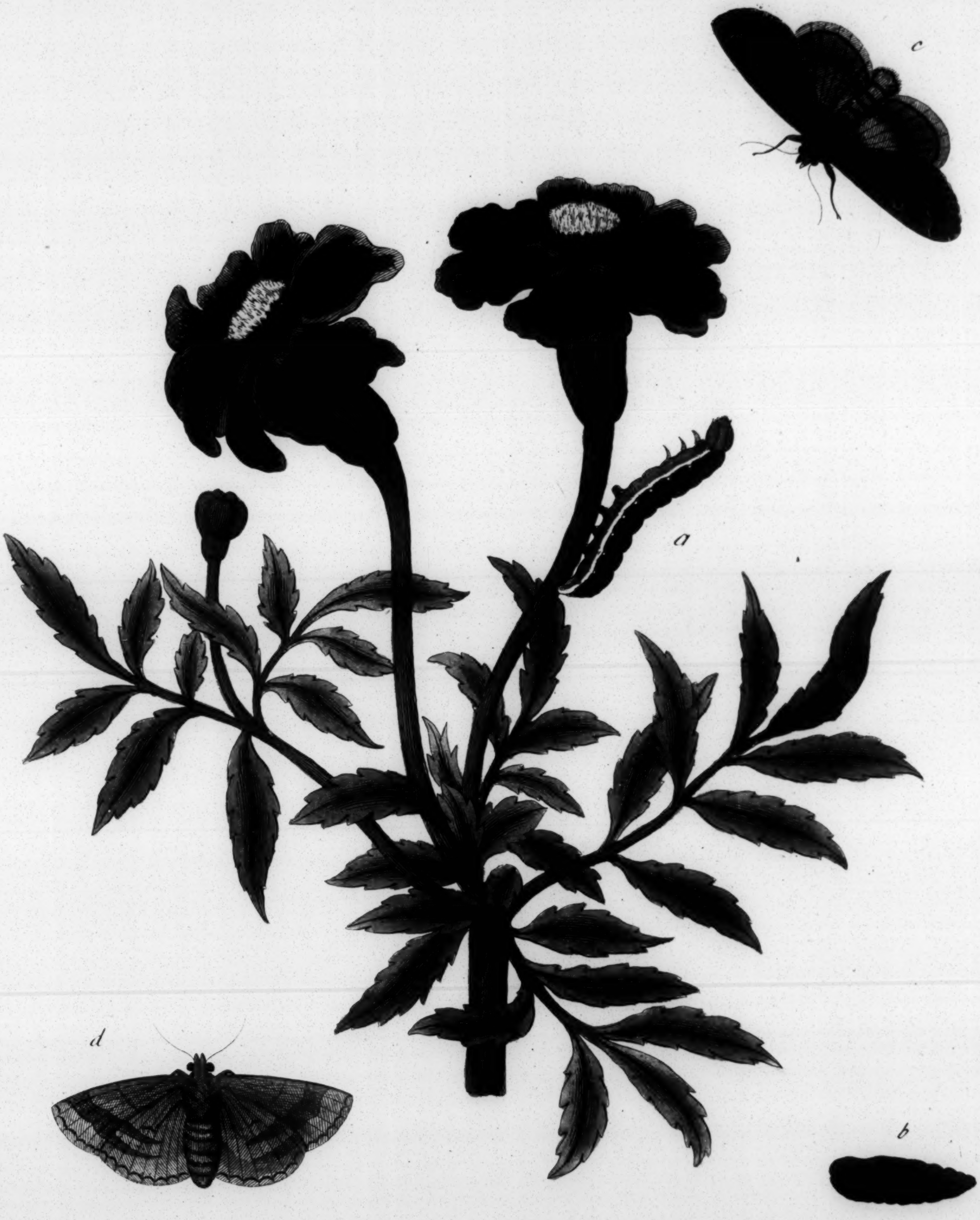


To Mountague Gerrard Drake Esqr

This Plate is humbly Dedicated by Eleazar Albin.

H. Teraſson, Sculp. Lon

LXXVIII



To John Ward of St. Clements Danes London, Esqr.
This Plate is humbly dedicated by Eleazr. Albin

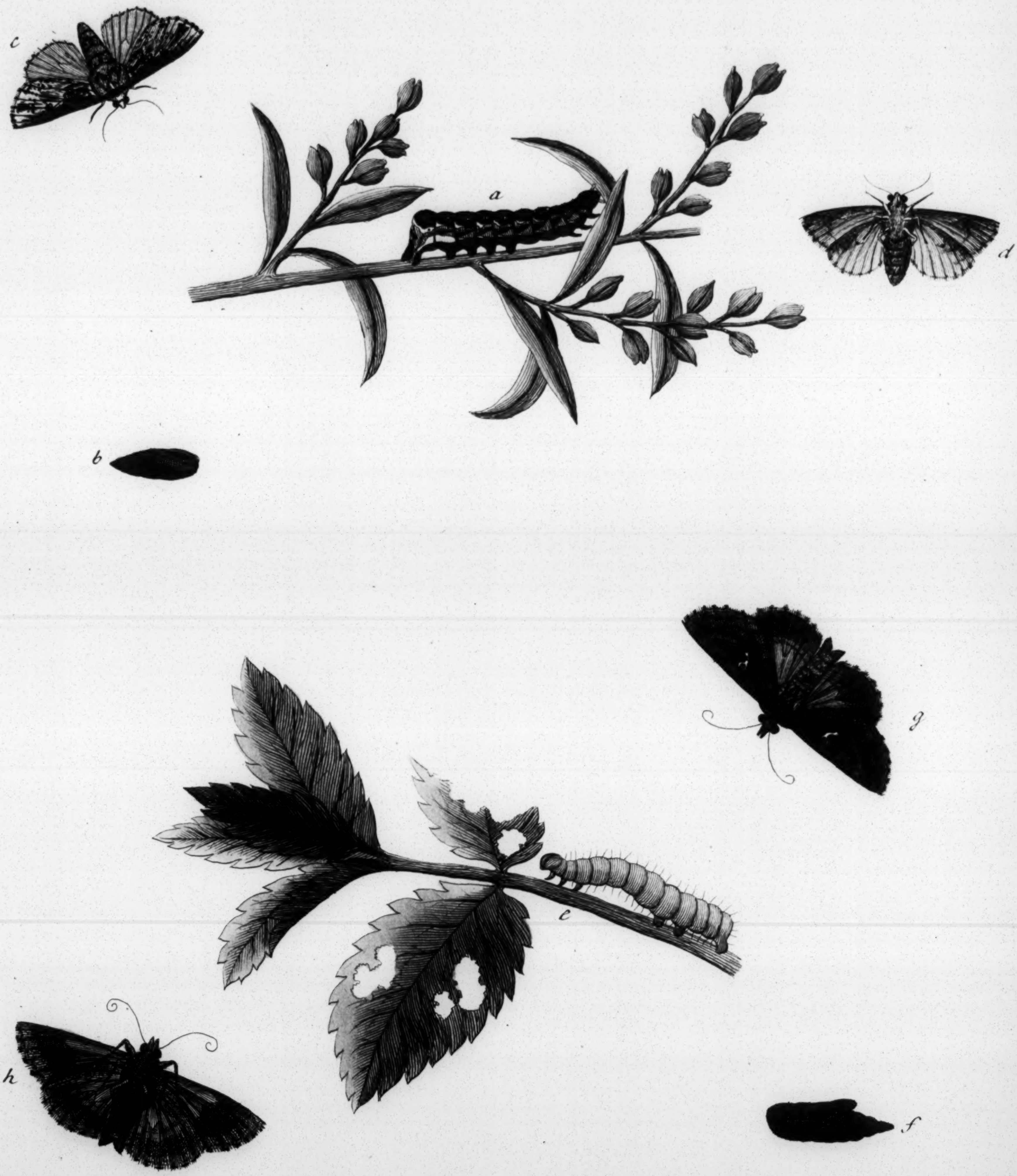
The DESCRIPTION *of the Seventy Eighth* PLATE.

THE CATERPILLAR, *a*, was Black on the *Back*, the *Head* and *Belly* of a muddy Green parted from the Black by a yellow *Stripe* on each Side, the Spots repreſenting *Eyes* reddiſh. It was found feeding on the *African Marygold* at the Beginning of *September*, and the latter End of the ſame *Month* it went into the *Earth* and changed into a *Chryſalis*, *b*, and the *Moth* *c*, *d*, came the 23d of *May* following.

The DESCRIPTION *of the Seventy Ninth* PLATE.

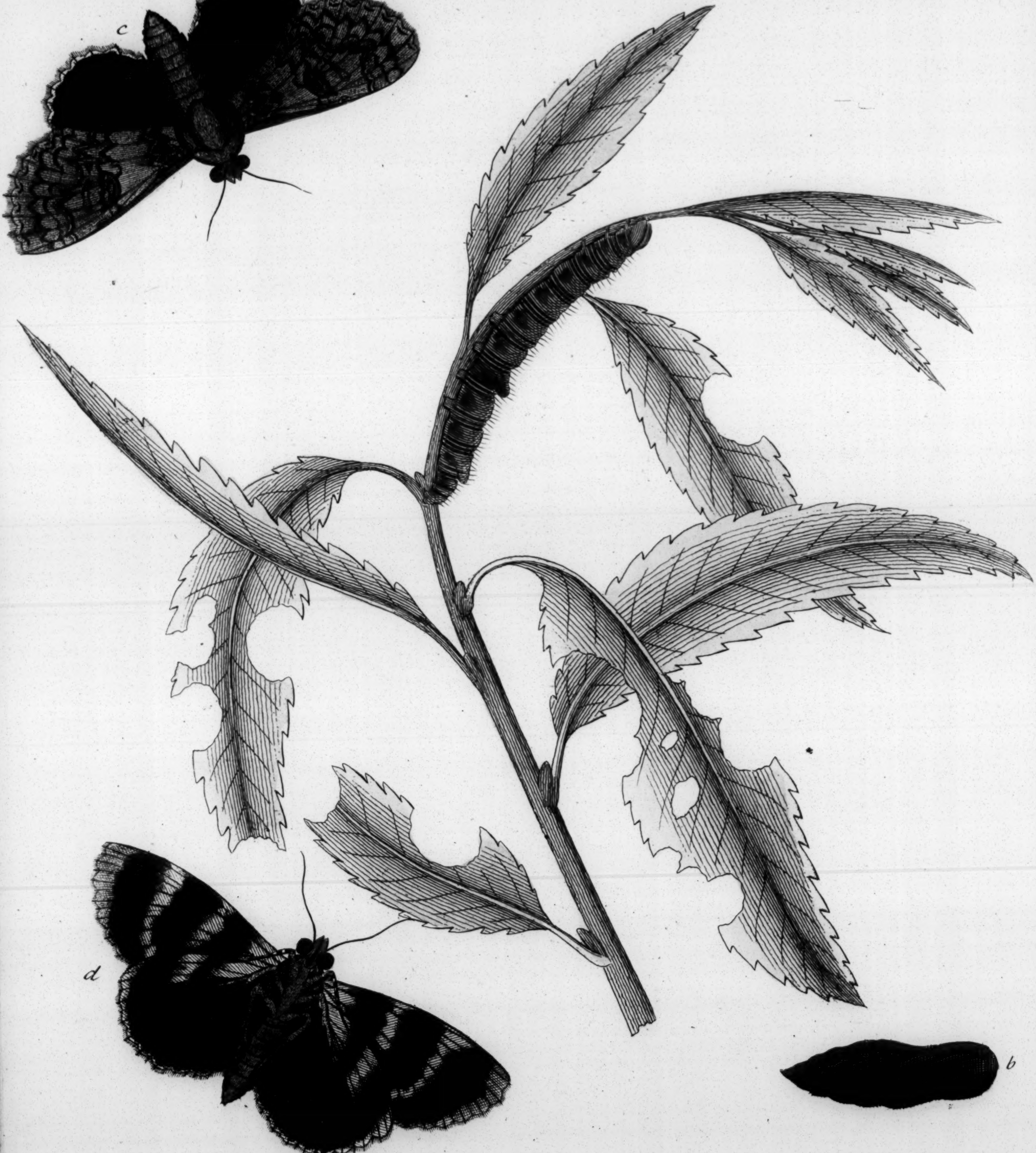
THE CATERPILLAR, *a*, in this *Table* was Yellowiſh with dark Clouds. It was found feeding on the Garden *Creſſes* the 2d of *Auguſt*, and the 11th of the ſame *Month* it went into the *Ground* and changed into *Chryſalis*, *b*; the *Moth*, *c*, *d*, came the 14th of *May*.

The Green CATERPILLAR, *e*, was found feeding on *Mint* the 4th of *Auguſt*, (they feed alſo on *Burdock*, *Colts-foot* and *Parſley*;) the two *Holders* in the *middle* of the *Body* on each *Side* of this CATERPILLAR are very remarkable, in which it differs from all that I have yet obſerved. It ſpun up within two Days after it was taken, and on the 24th of the ſame *Month* came the *Moth*, *g*, *h*, commonly call'd the Y *Moth*, from having a Mark in the middle of each *upper Wing* ſomewhat reſembling that Letter. See *Liſter on Goddart page* 20. *N*° 14.



To Thomas Windham of Hawkchurch in the County of Dorset
this plate is humbly Dedicited by **Eleazar Albin.**

H: Terasson. Sculp. Londo



TO THE MOST NOBLE
Henrietta Dutchess of Newcastle
This Plate is humbly dedicated by Eleazar Albin.

The DESCRIPTION *of the Eightieth* PLATE.

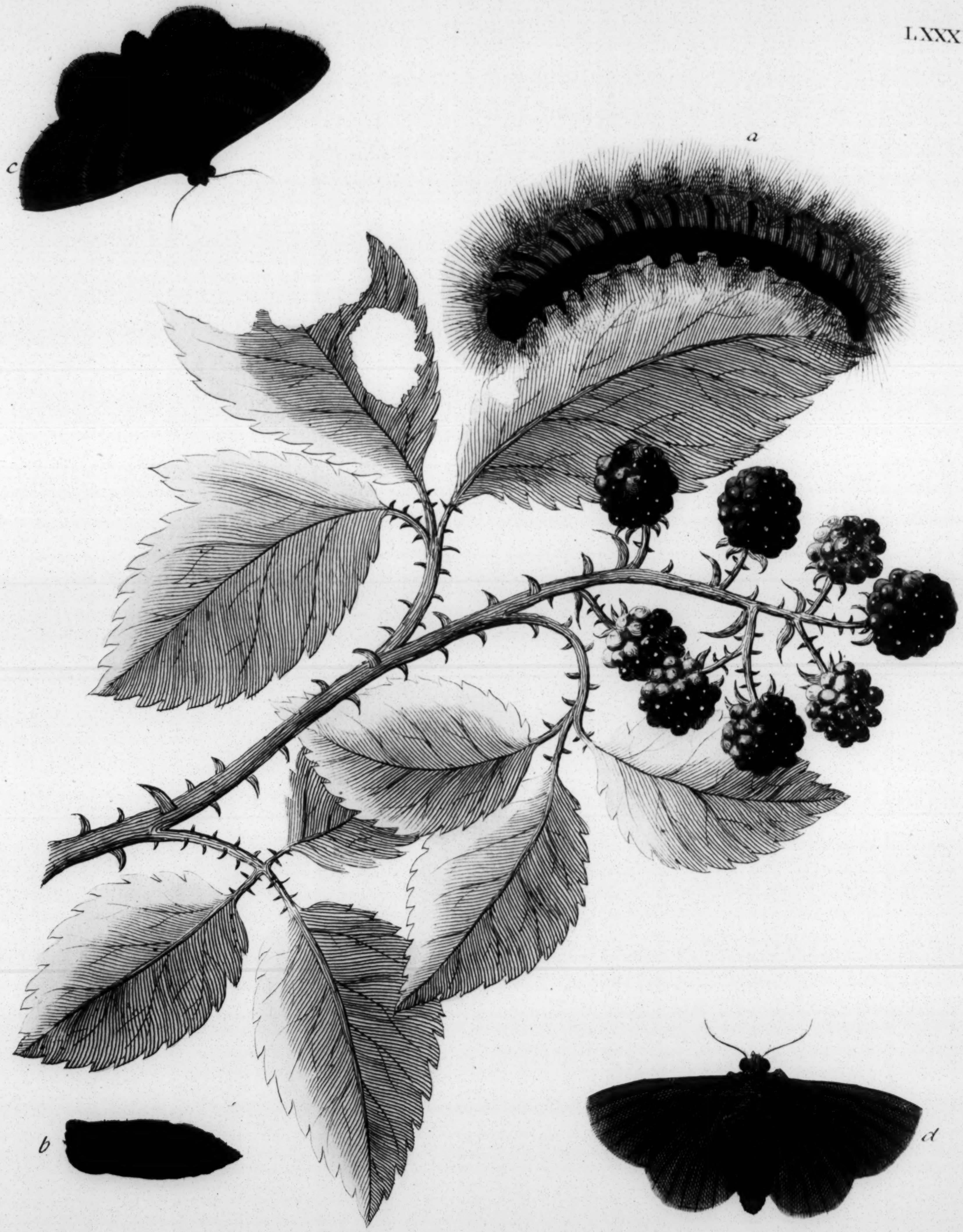
THE CATERPILLAR, *a*, was Browniſh, having a Protuberance on the *middle* of his *Back* and another on his *Tail*, with a Shade of Red under the former. I found it on the *Willow*, by the *Thames-ſide* at *Chelſea Phyſick-garden* the 12th of *June*, and the 17th it ſpun it ſelf up between the *Leaves* in a thin *Web*; and changed into *Chryſalis*, *b*, which was all over cover'd with a blueiſh White ſomewhat like that on *Plumbs*; the *Moth*, *c*, *d*, came the 17th of *July*, it is commonly called the red *under Wing*.

The DESCRIPTION *of the Eighty Firſt* PLATE.

THE CATERPILLAR, *a*, in this *Table* was of a reddiſh Brown or Fox Colour, with a black *Stripe* like Velvet at each *Joint*; the *Head*, *Feet*, *Belly* and *Holders* were Black. I found it about the Beginning of *March*, and fed it on the *Bramble* till the latter end of the ſame *Month*, then it ſpun a *Web* in which it turn'd into *Chryſalis*, *b*; the Beginning of *May* came the *Moth*, *c*, *d*; this CATERPILLAR, is called by the *Country People* the *Devil's Gold Ring*, but we diſtinguiſh it by the Name of the *Fox*.

This CATERPILLAR is frequently found in *Autumn*, and reſemble the *Ragweed* CATERPILLAR, *e*, *Table* 34. when they are ſmall, but theſe I could never bring to their Change.

LXXXI

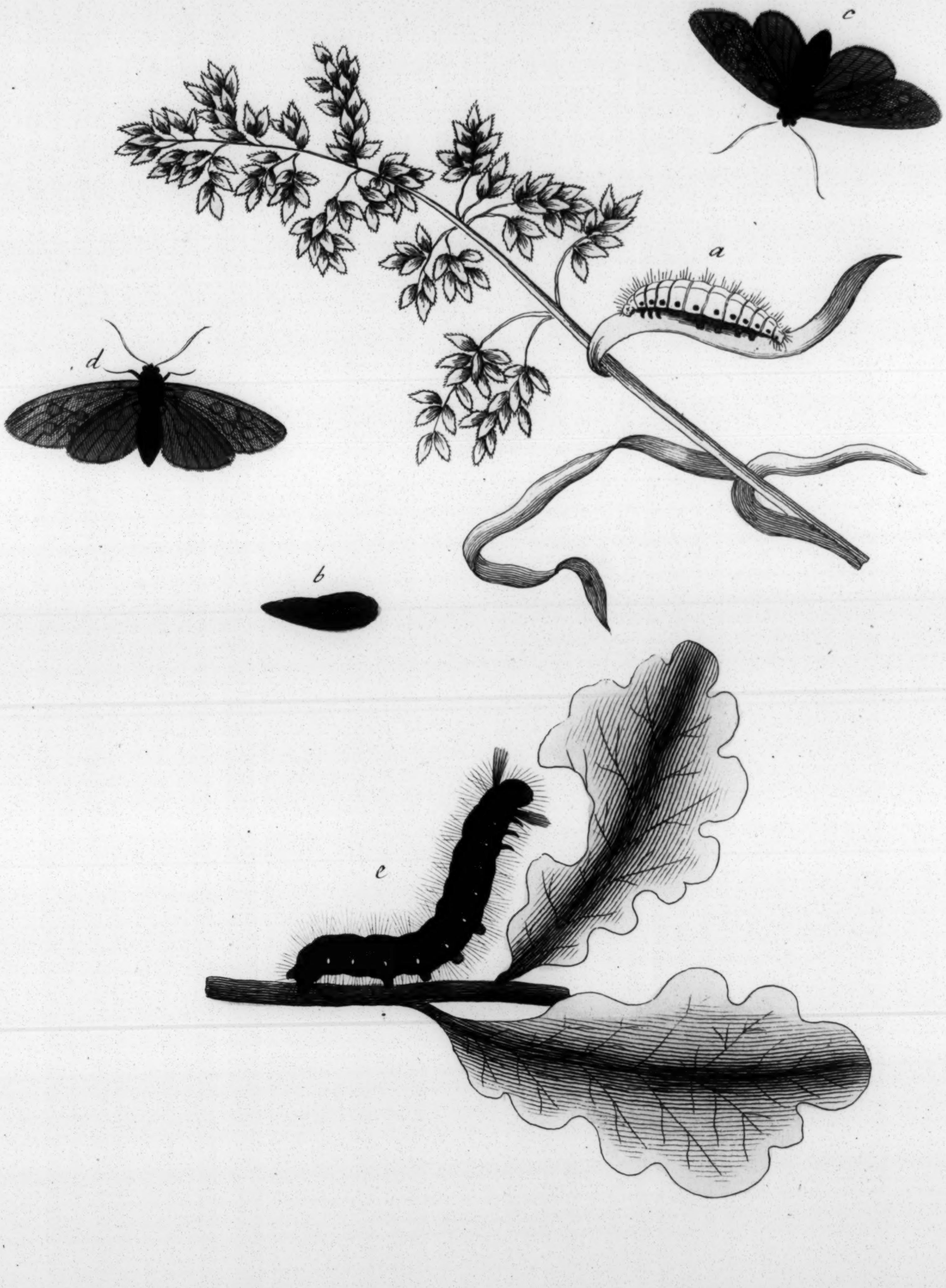


TO THE RIGHT HONORABLE

Thomas Earl of Pembroke & Montgomery, &c.

this Plate is humbly Dedicated by Eleazar Albin

H. Teraſson, Sculp. Sen



To William Cholwich of the Middle Temple Esqr.
This Plate is humbly dedicated by Eleazr. Albin.

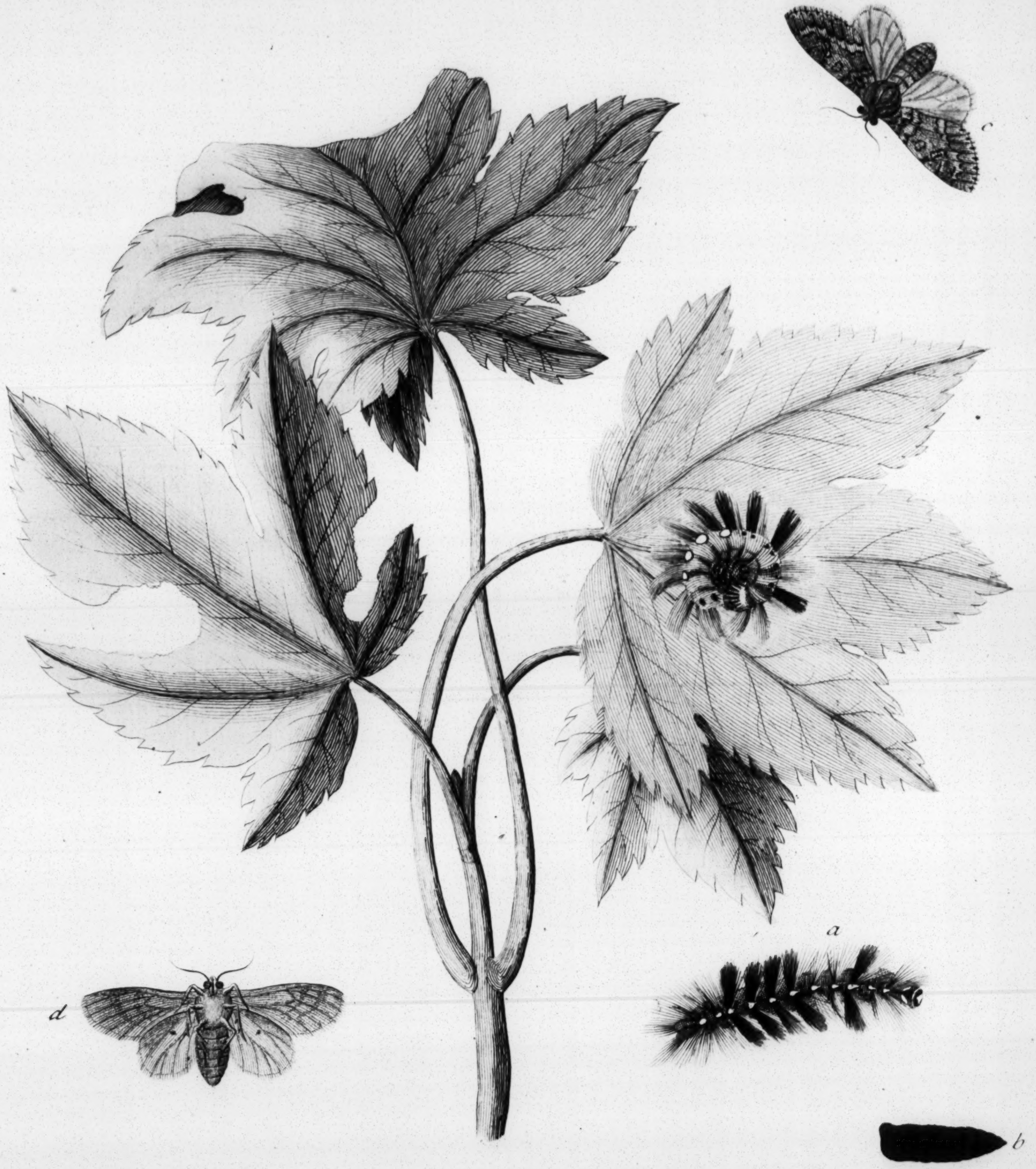
The DESCRIPTION *of the Eighty Second* PLATE.

THE CATERPILLAR, *a*, in this *Table* was of a yellowiſh Colour with a Brown *Head.* It was found about the Beginning of *May* feeding on *Graſs.* Mr. *Knowlton* has obſerved them in *Hartfordſhire* to have devoured whole Fields of *Saint-foin.* It ſpun it ſelf up in a yellowiſh ſhining *Caſe*, and changed into a black *Chryſalis* the 24th of *May*, the *Moth*, *c*,*d*, came the 15th of *June*, the *upper Wings* of a dark Green ſpotted with Red, the *under Wings* all Red edged with Black: this is commonly called the *Wood Leopard.*

The CATERPILLAR, *e*, was found on an *Oak* near *Peckham* in *Kent* the 16th of *June*, a few Days after it caſt a *Skin*, and then fed again for ſome time afterward; it ſpun its ſelf up in a thick Oval *Caſe*, in which it died without Changing.

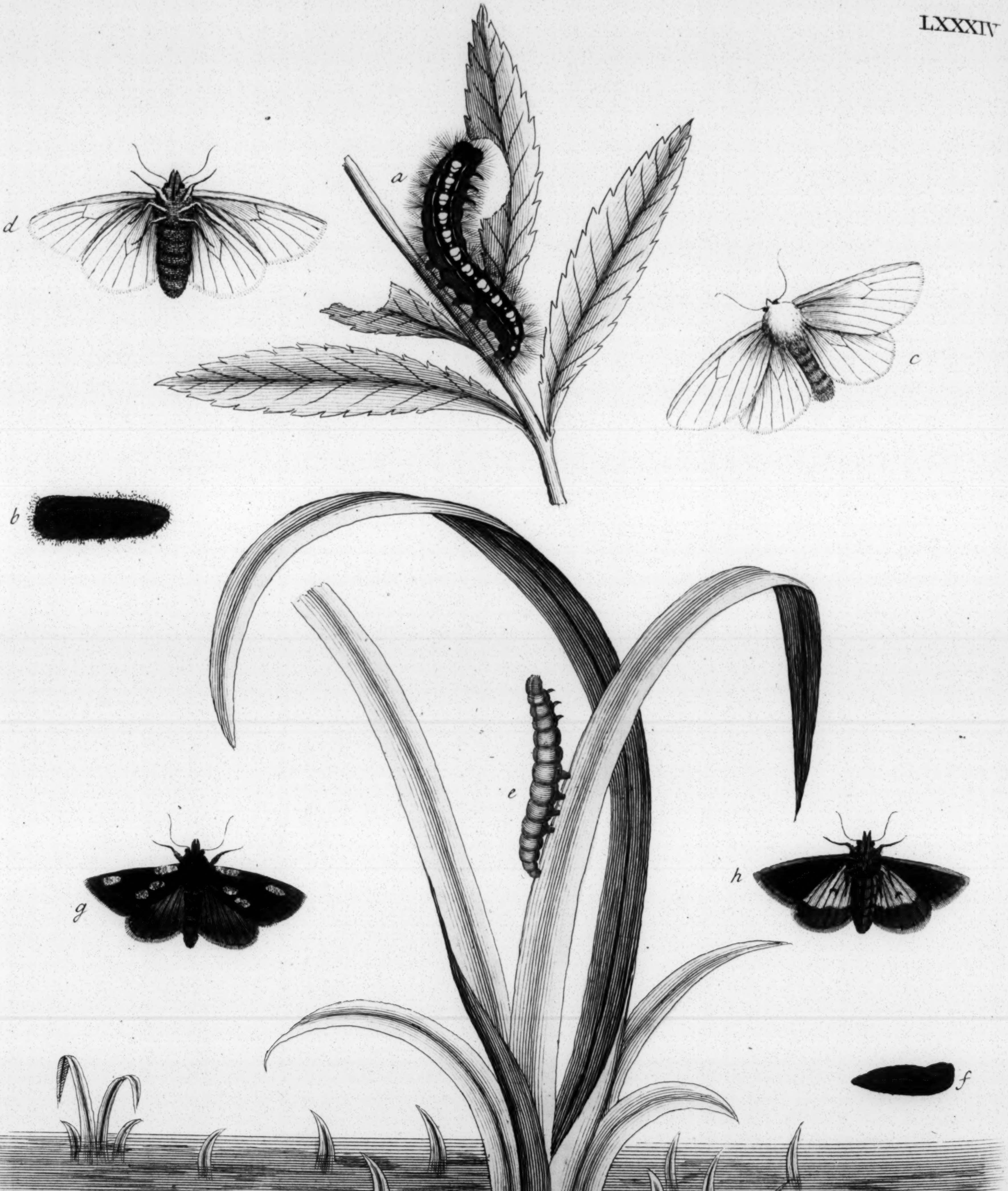
The DESCRIPTION *of the Eighty Third* PLATE.

THE CATERPILLAR, *a*, in this *Table* was Yellow with *Tufts* of Scarlet and Yellow. It was found feeding on the *Sycamore Tree* at the Beginning of *July*; when you diſturb it, it rolls it ſelf up like a *Hedgehog*, as is expreſt on the *Leaf*; the 13th of *July* it ſpun it ſelf up mixing its *Hair* with the *Web*, and changed into a *Chryſalis*, and the *Moth* came the 10th of *June*. From ſome of theſe CATERPILLARS that were *fly-blow'd* about three Weeks after they ſpun up came *Ichneumon Flies*.



TO THE RIGHT HONORABLE
Lady Mary Gore.
this plate is humbly Dedicated by Eleazar Albin.

H. Terraſson. Sculp. London



To the Hon.ble Brigadier Gen.l Russel.

this Plate is humbly dedicated by — Eleazar Albin.

E. Albin del.

Hulett Sculp.t

The DESCRIPTION *of the Eighty Fourth* PLATE.

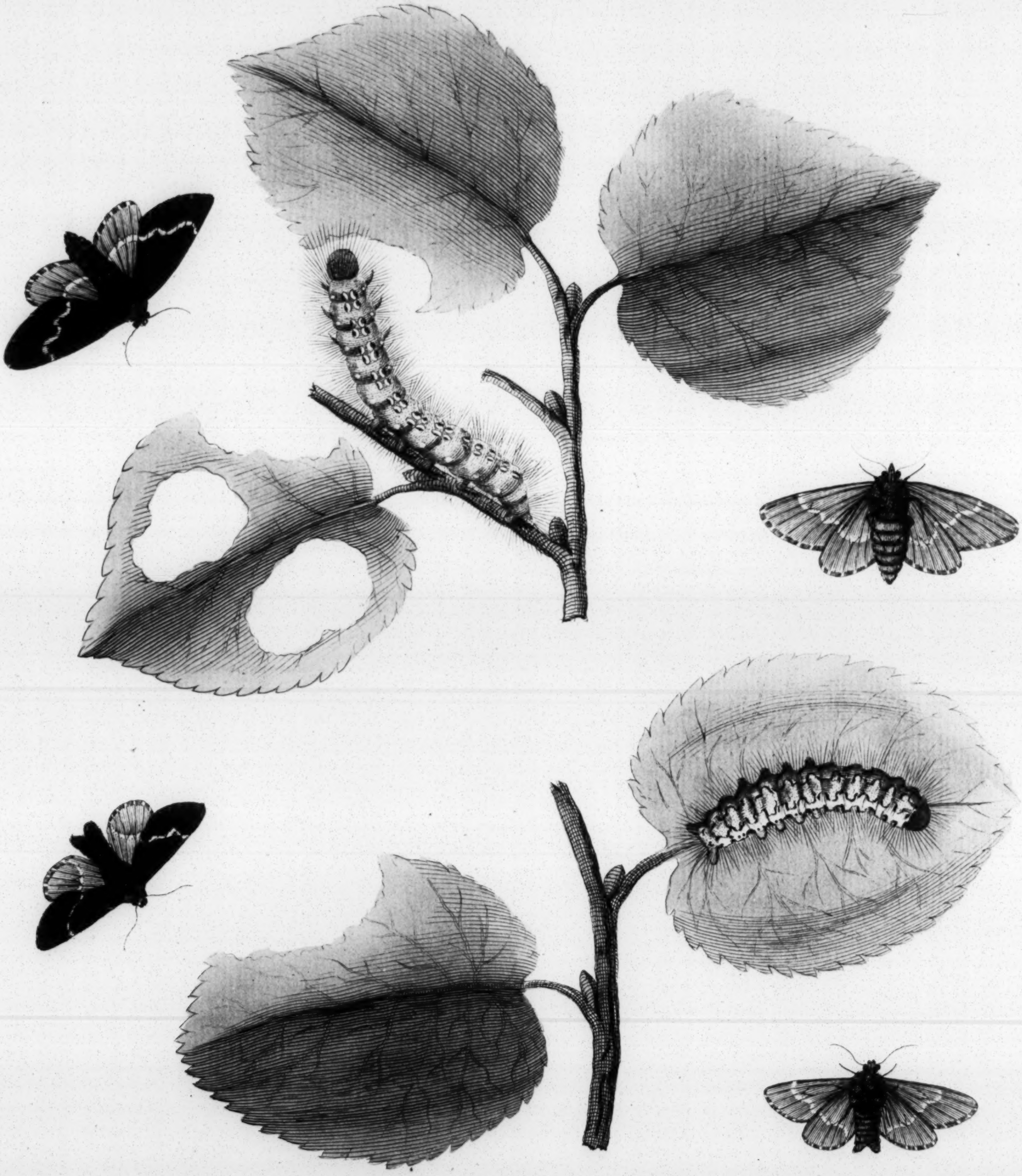
THE CATERPILLAR, *a*, was Purple, beautifully marked with Red and Yellow Spots. It was found on the *Willow* the 15th of *May*, and the 4th of *June* it ſpun up between the *Leaves* and changed into a hairy *Chryſalis*; the *Moth*, *d*, *e*, came the 24th of the ſame *Month*, they lay *Eggs* of a pale Green Colour covered with a Subſtance looking like Leaf Silver. The young CATERPILLARS were hatched the 28th and 29th of *July*, and live all Winter. See *Liſter on Godart*, *page* 84. *N*° 87.

The Green CATERPILLAR, *e*, was taken the 4th of *Auguſt* thinly ſpun up in the *Leaves* of the great *Water-graſs* in a *Meadow* near *Rotherhith*; in about two Days after it changed into a *Chryſalis*, *f*, and the 17th of the ſame *Month* came a browniſh *Moth*, *g*, *h*, with Spots like *burniſh'd Gold* in the *upper Wings*.

The DESCRIPTION *of the Eighty Fifth* PLATE.

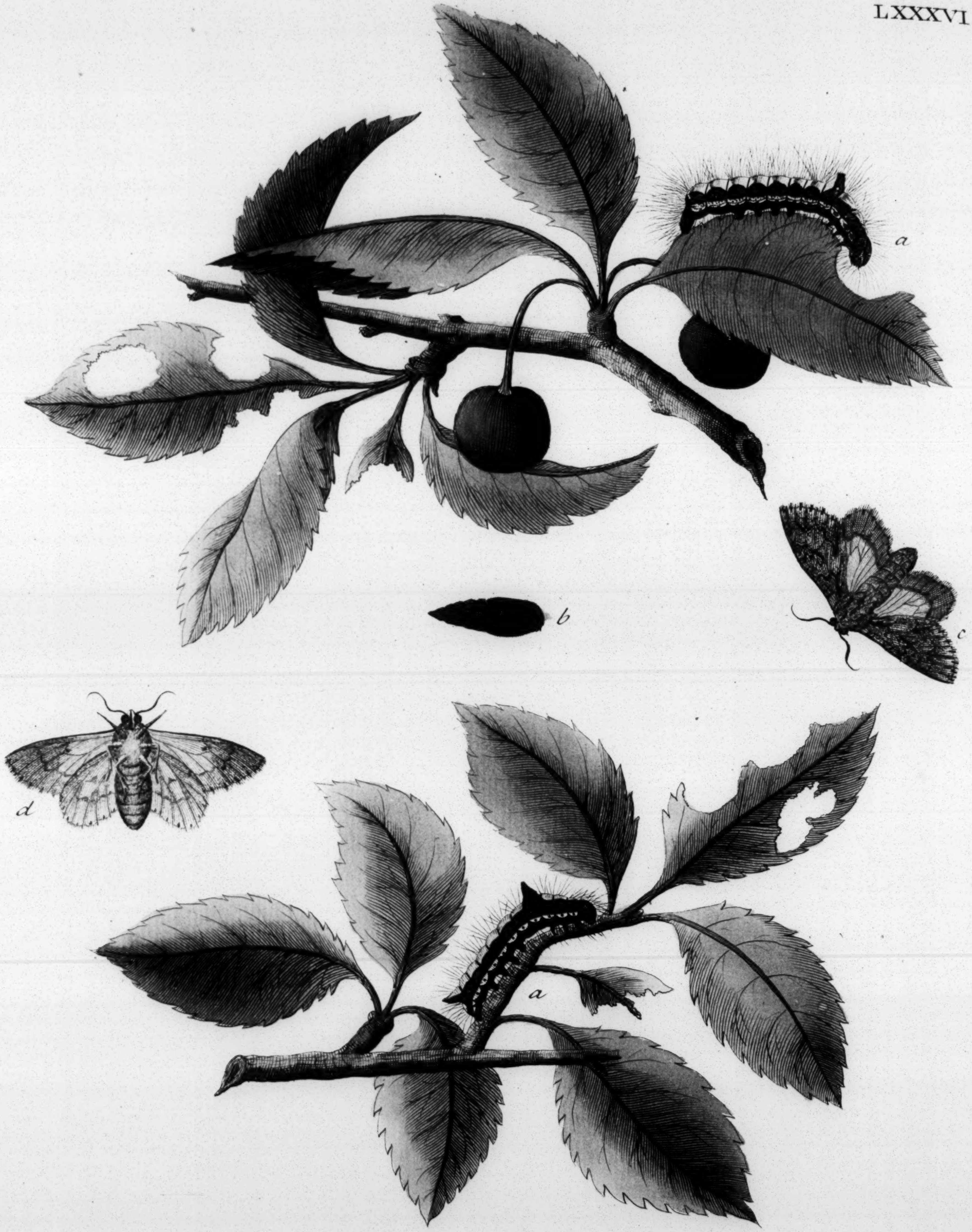
THE CATERPILLARS, *a, a,* were found on the *Haſle* the 1ſt of *June*. I obſerv'd them to eat very little, but upon giving them freſh *Boughs* which happened to be wet with *Rain,* they fed greedily. The next day I gave them *Water* and *Honey* mixed together, of which they drank a good Quantity and fell to eating again very heartily. In this manner, I fed them every day ſometimes twice a-day till the 14th of the ſame *Month*; they then went into the *Earth* and changed into *Chryſalis*; the *Moth* came at the latter End of *December*; *b, c,* ſhows the *Female*, and *d, e,* the *Male*.

LXXXV



TO THE MOST NOBLE
William Duke of Devonshire
This Plate is humbly dedicated by Eleaz.r Albin.

LXXXVI



To the Right Honorable
Lady Elizabeth Compton
this plate is humbly Dedicated by Eleazar Albin. *H: Feraſson, Sculp: London,*

The DESCRIPTION *of the Eighty Sixth* PLATE.

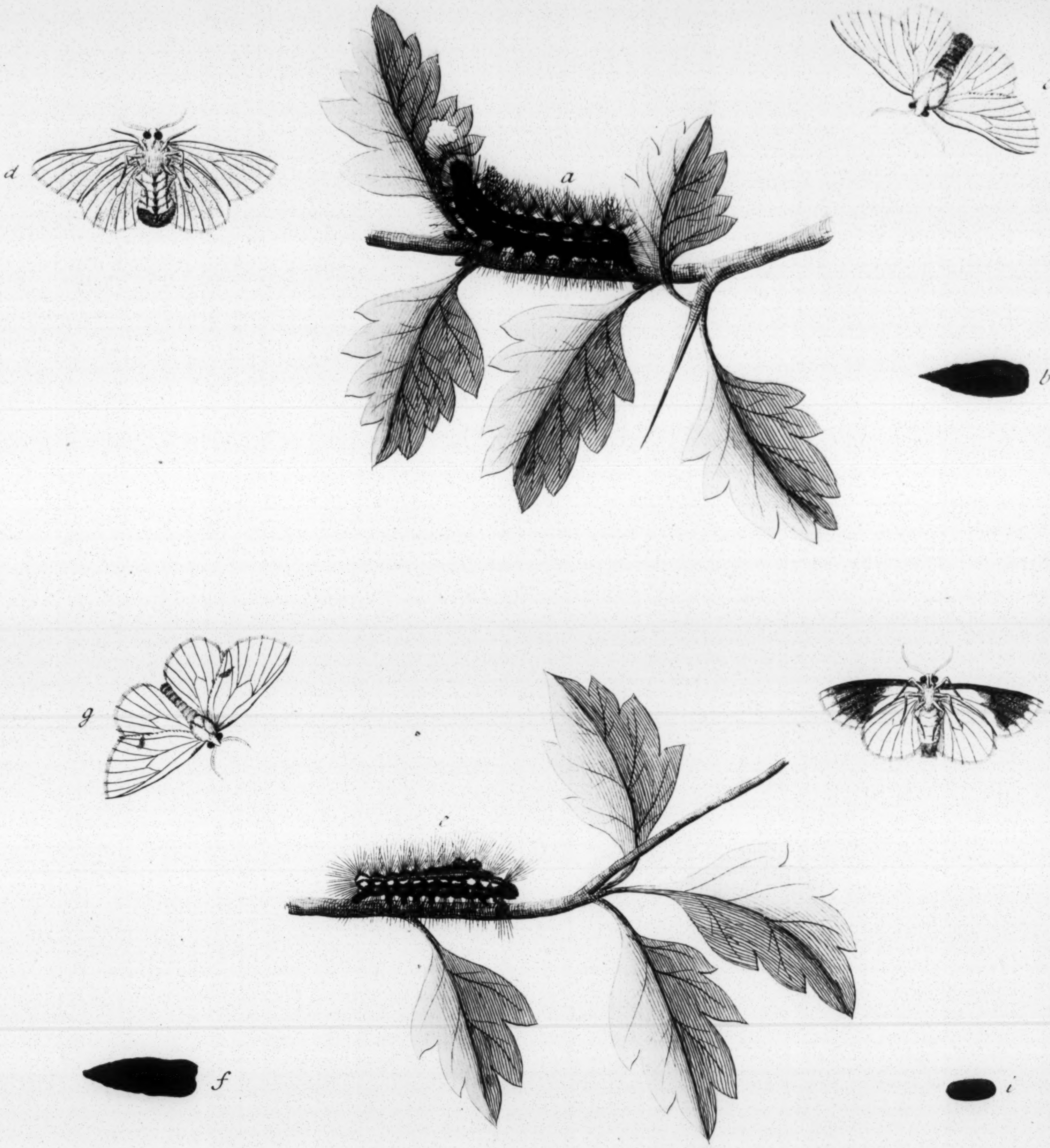
THE CATERPILLAR, *a*, upon the upper *Branch* was finely painted with divers Colours having a *Protuberance* on the *Back*. It was found on the *Cherry Tree* the 15th of *June*, and on the 20th it went into the *Earth* and changed into a *Chryſalis*, *b*; the 14th of *July* came the *Moth*, *c*, *d*.

The CATERPILLAR on the lower *Branch* was painted like the former having two *Protuberances*, one on the *Back* and another on the *Tail*. This was found on the *Plumb Tree* about the latter end of *July*, and a *Moth* like the former came the 26th of *May* following. Their *Eggs* are very ſmall, and of the Colour of *Vardegreaſe*.

The DESCRIPTION *of the Eighty Seventh* PLATE.

THE CATERPILLAR, *a*, was Brown, with two Red Spots near the *Tail*, and a Row of white Spots on each *Side*. It was found on the *white Thorn* the 28th of *May*; and the 10th of *June* it ſpun up, and about the middle of *July* came a white *Moth*, *c*, *d*, with a brown *Tail*, from whence it is commonly called the *Brown-tail*. The *Eggs* of this CATERPILLAR are hatched in *Autumn*, and the Young feed upon the fleſhy Part of the *Leaf*, leaving the *upper Skin* untouched; they lay themſelves up in *Webs* all Winter, and as ſoon as the *Buds* open, they come forth and devour them in ſuch manner that whole Trees and ſometimes Hedges for a great way together are abſolutely bare. It will be well worth while for thoſe who value their Trees, or Hedges, to have the *Webs* cut off and deſtroyed during the Winter.

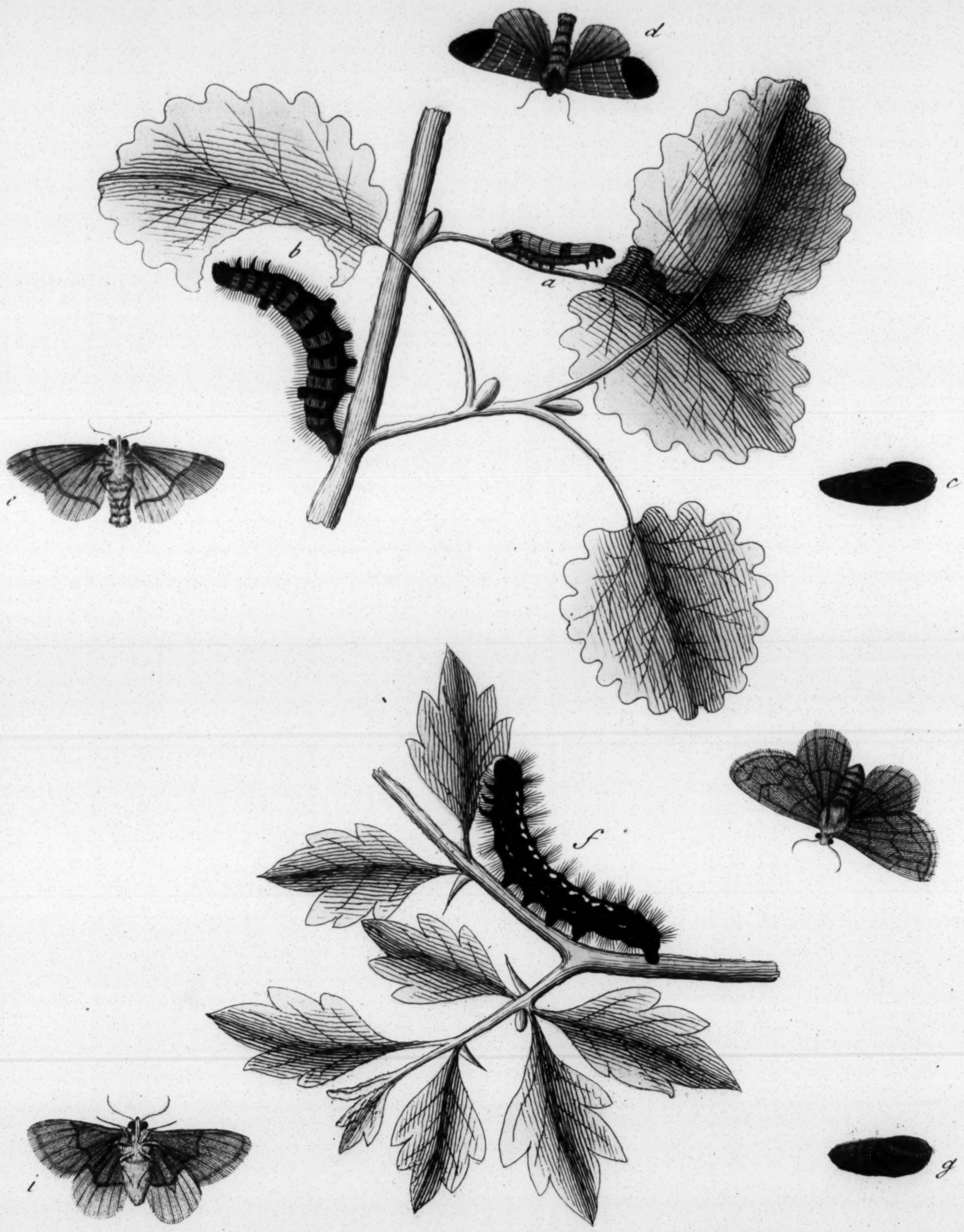
The CATERPILLAR, *e*, was dark Brown, ſpotted all over with Red and White. It was found on the *white Thorn* the 29th of *May*, and the 2d of *June* it ſpun it ſelf up, and changed into a *Chryſalis*; the 22d of *June* came a white *Moth* with a ſmall black Spot in each *upper Wing*, the End of their *Tail* Orange Colour. They lay *Eggs* of a pale Colour, covering them with a woolly Subſtance; the young CATERPILLARS hatched the 14th of *Auguſt*; I fed them 'till the latter End of *October*; they ſpun themſelves up in little *Caſes*, and ſo remained till the *Spring* following.



To Thomas Cowslad Eſq^r

this plate is humbly Dedicated by Eleazar Albin.

H. Teraſson Sculp. L



To Thos: Knowlton Gardiner at Sr Henry Penrices, at Offley Place in Hartford Shire
This Plate is humbly dedicated by Eleaz^r: Albin

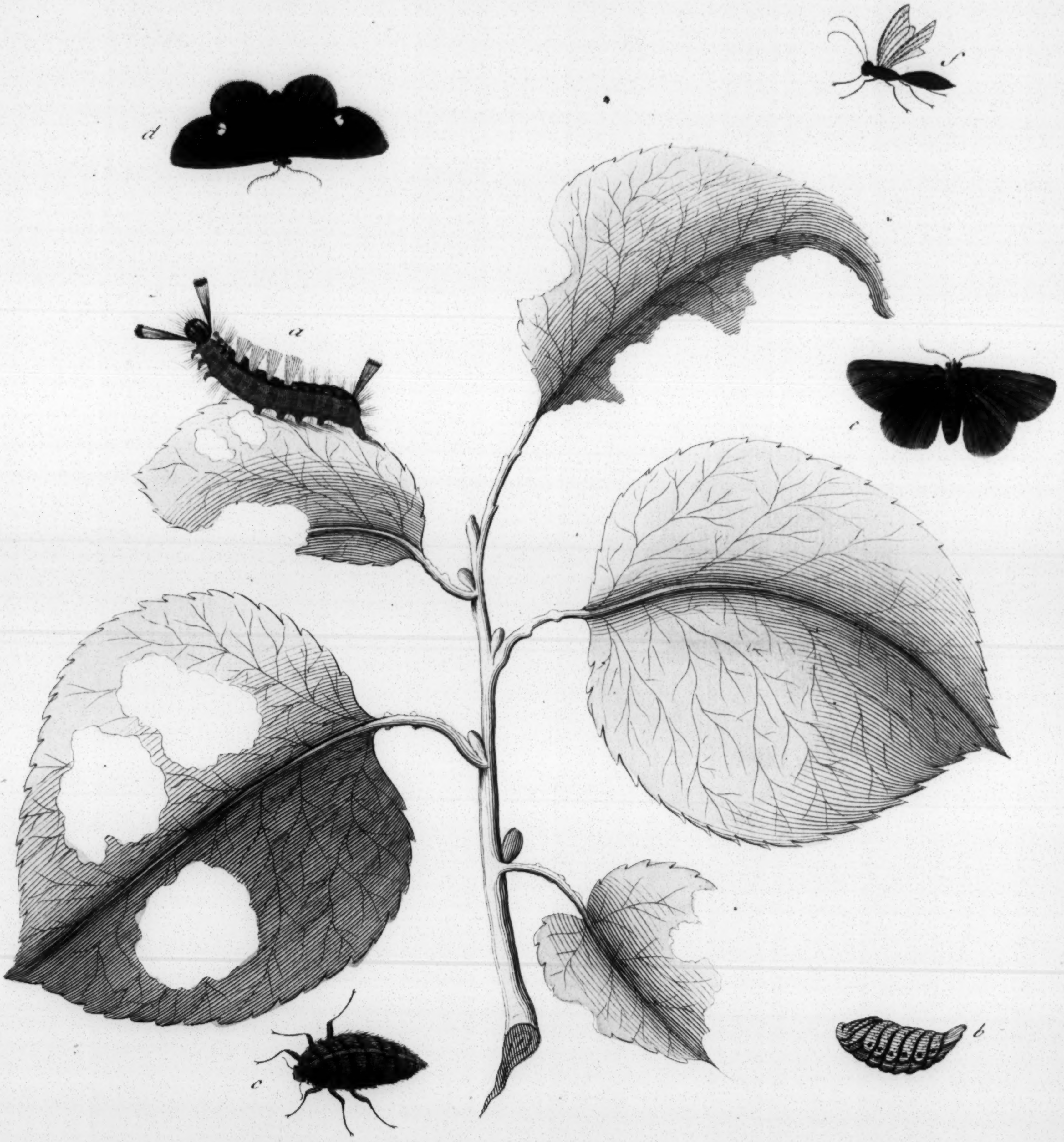
The DESCRIPTION *of the Eighty Eighth* PLATE.

THE CATERPILLAR, *a*, was Yellow and Orange Colour. It was taken on the *Aſpen Tree* near *Muſſel* Hill at the Beginning of *September*; it ſpun it ſelf up in a *Web* in which it lay two days, and then came out caſting its *Skin*, the Marks and Colour appear'd as at *b*; it fed 'till the 24th of *September*, and then ſpun it ſelf up to the Side of the *Box*; the *Moth*, *d*, *e*, came the 19th of *March*.

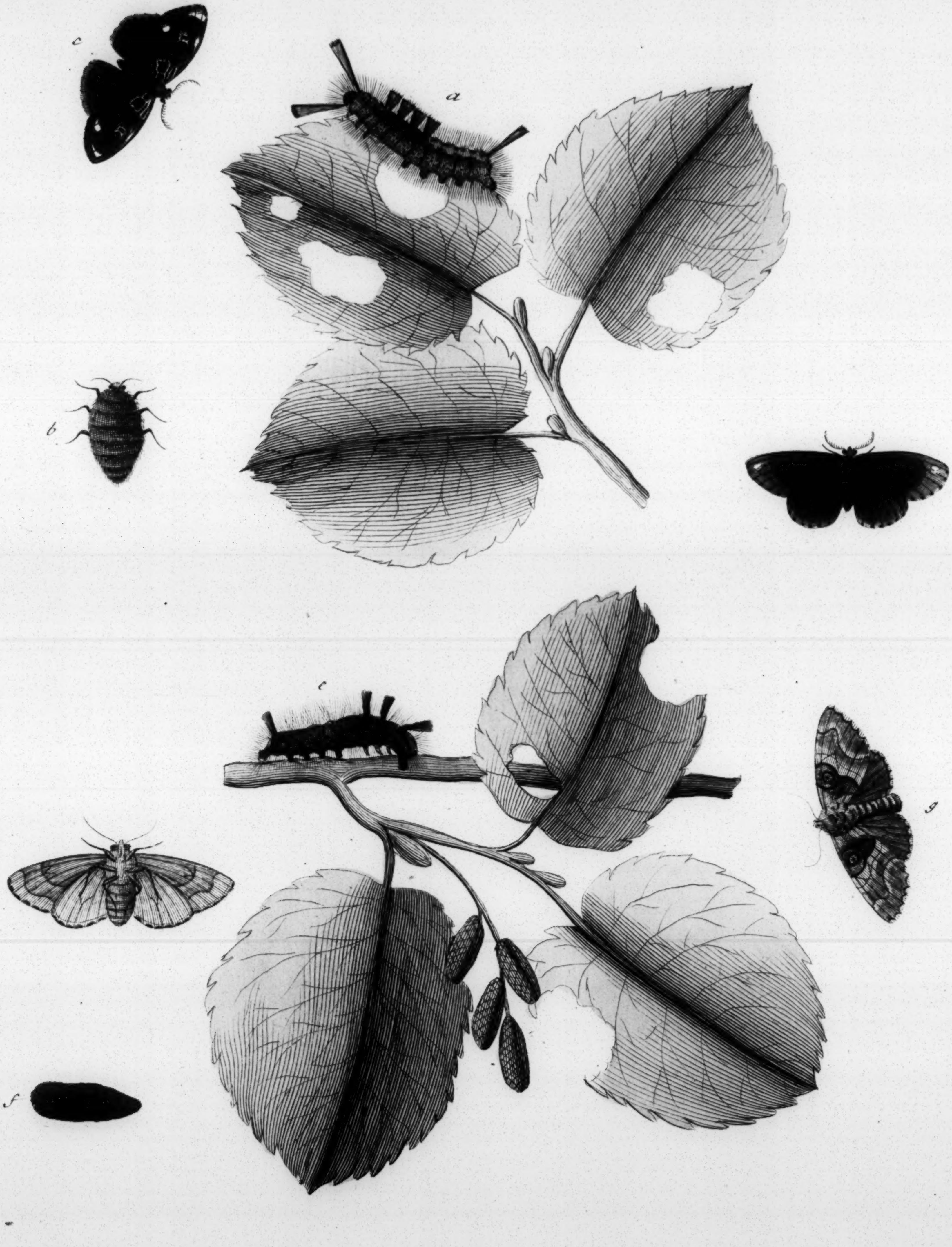
The CATERPILLAR, *f*, was dark Brown, ſpotted with divers Colours. It was found on the *white Thorn* the 16th of *May* (they will feed on the *Oak*, *Haſle*, and *black Thorn*;) it ſpun up the the 28th of *May*, and changed into *Chryſalis*, *g*, and the 20th of *Auguſt* came the *Moth*, *h*, *i*. Their *Eggs* are covered with a dark hairy Subſtance which they lay in *Lines* of divers Figures on the *Barks* of the Trees.

The DESCRIPTION *of the Eighty Ninth* PLATE.

THE CATERPILLAR, *a*, in the *Table* was purpliſh ſpotted with Red, it had four *Tufts* of yellow *Hair* on its *Back*, two black *Tufts* like *Horns* on the *Head*, and one of the ſame Colour on the *Tail*. It was found feeding on the *Apricock Tree* the 27th of *May*, and ſpun it ſelf up at the Beginning of *June*; the *Female Moth*, *c*, came about the 16th of the ſame *Month*, this was without *Wings*, and after Copulation lays her *Eggs* on the *Web*, in which ſhe lay while in *Chryſalis*; the *Male*, *d*, *e*, of a reddiſh Brown, with a Spot of White in each *upper Wing*, came the 21ſt of *June*. From a *Chryſalis* of this kind came the *Ichneumon*, *f*. See *Liſter on Godart*, *page* 80. *N*° 79.



To Mrs Etheldred Hovel Wife of the Most Rever^{d} Father in God
His Grace the Lord Arch Bishop of Canterbury
this Plate is humbly dedicated by Eleazar Albin.



To Mrs. Dorothea Trotman Wife of Samuel Trotman of Bucknel Esqr.
this Plate is humbly dedicated by Eleazar Albin.

The DESCRIPTION *of the Ninetieth* PLATE.

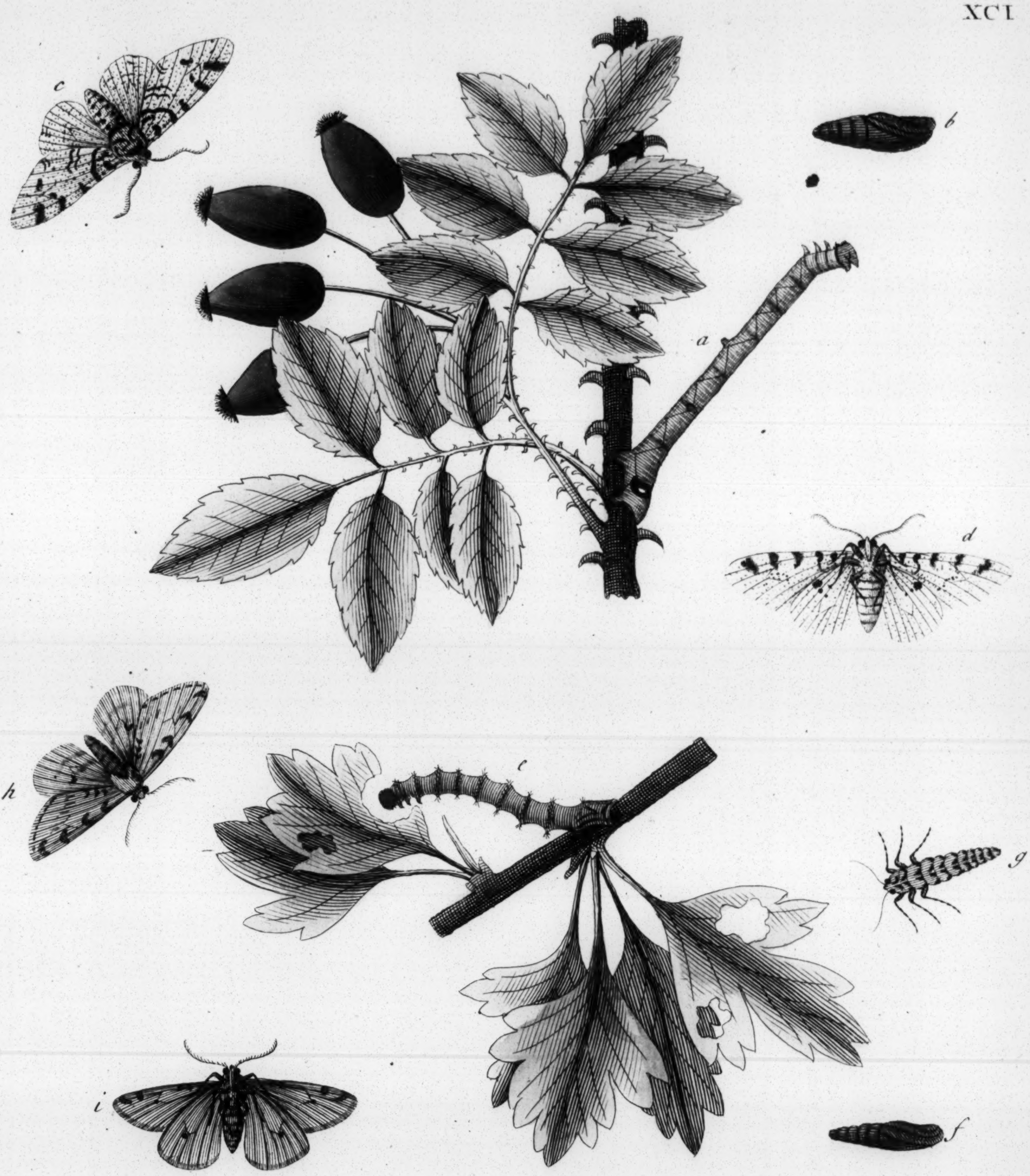
THE CATERPILLAR, *a*, was darkiſh Purple with red Spots and horned *Tufts* like the former, the four *Tufts* on its *Back* Red. It was found feeding on the *Haſle* at the latter End of *April* near *Lewſham* in *Kent*; it fed 'till the 19th of *May*, and then ſpun up and changed into a *Chryſalis*; and the *Moth* came the 6th of *June*; *c*, *d*, ſhows the *Male*, and *b*, the *Female*.

The CATERPILLAR, *e*, was Orange Colour, with two *Tufts* on the *Head*, and one on the *Tail*, and but two in the middle of the *Back* of the ſame Colour of the CATERPILLAR. It was found on the *Haſle* the 19th of *Auguſt*, and the 10th of *September* it ſpun up, and changed into *Chryſalis*, *f*; the *Moth*, *g*, *h*, came the firſt of *April*.

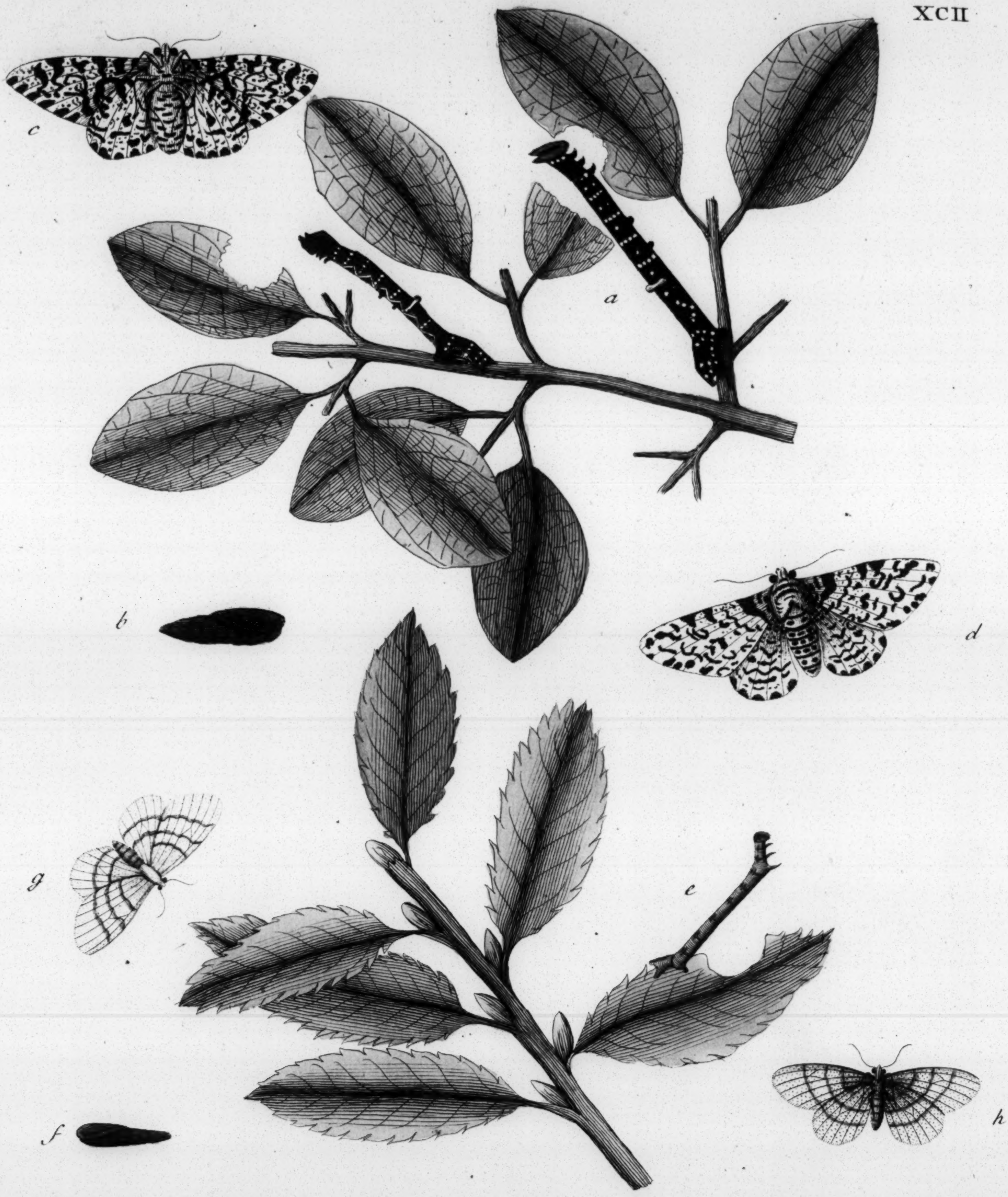
The DESCRIPTION *of the Ninety First* PLATE.

THE CATERPILLAR, *a*, in this *Table* was of a yellowiſh Green, with an indented Line of Brown on each *Side*. It was found feeding on the *wild Briar* at the Beginning of *September*, and at the latter end of the ſame *Month* it went into the *Earth*, and changed into *Chryſalis*, *b*; the *Moth*, *c*, *d*, came at the latter end of *May*. It was White motled with Black.

The CATERPILLAR, *e*, was Brown, and round each *Joynt Tufts* of ſhort prickly *Hairs*, the *Head* Red. It was found on the *white Thorn* about the 20th of *May* near *Hornſey-wood*, and about the Beginning of *June* it went into the *Earth*, and changed into *Chryſalis*, *b*; the *Female Moth*, *g*, was without *Wings*, and came about the middle of *April*; and the *Male*, *h*, *i*, came two Days after.



To Elizabeth Lady Stuart, Wife of Sr. Simeon Stuart of Hantshire, Bart.
This Plate is humbly dedicated by Eleazr. Albin



To Henry Cartwright Esqr.
This Plate is humbly dedicated by Eleaz: Albin.

The DESCRIPTION *of the Ninety Second* PLATE.

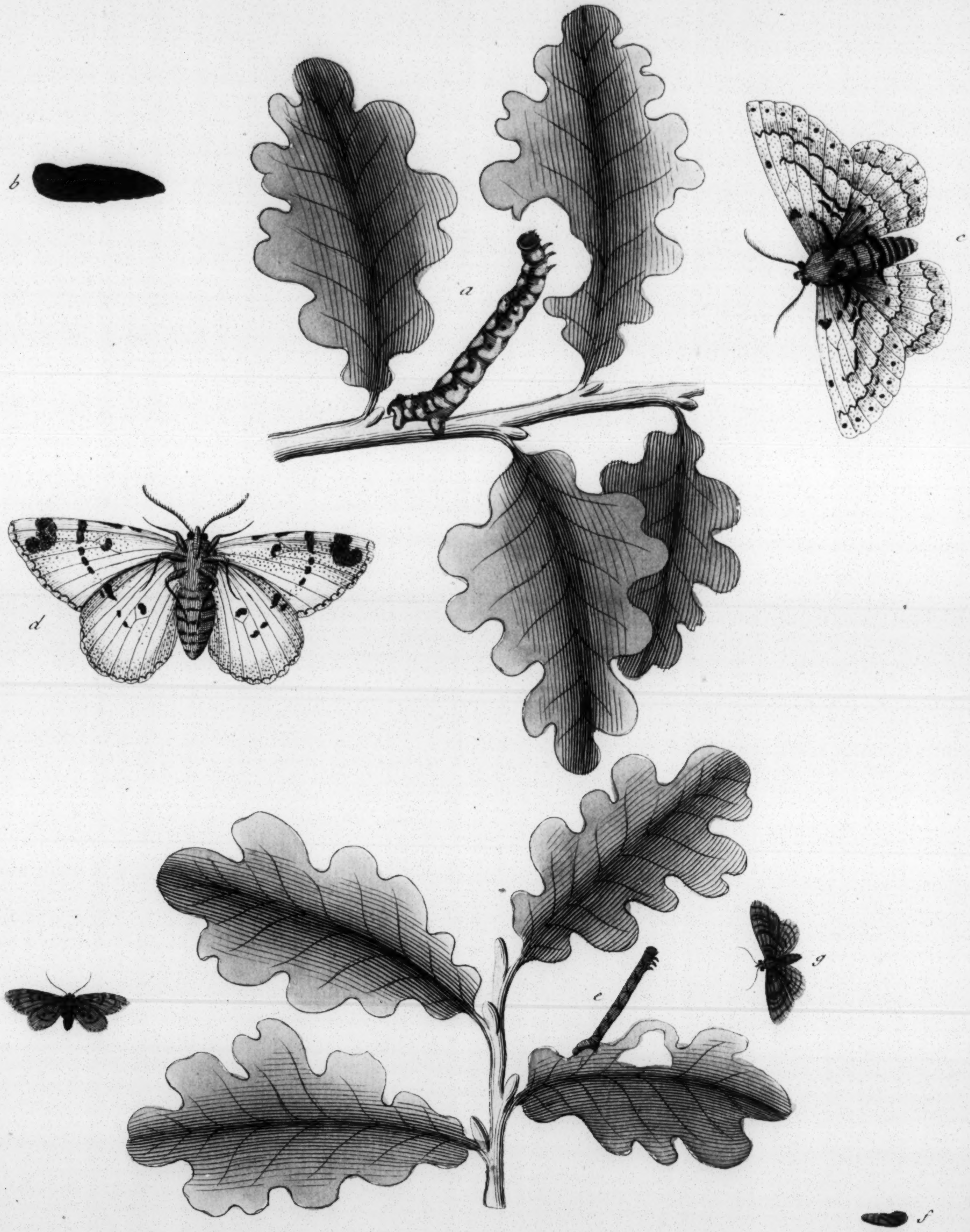
THE CATERPILLAR in this *Table*, while ſmall, was of a Roſie-red Colour, with a Circle of white Spots round each *Joint*, as repreſented by the leſſer Figure in the *Plate*, when it grew larger, upon caſting a *Skin*; it appear'd as at *a*. It was found on the *Dog-berry Tree* near *Muzzle-hill* the 26th of *Auguſt*; it went into the *Ground* the 3d of *October*, and changed into *Chryſalis*, *b*; and the *Moth*, *c*, *d*, came about the latter end of *May* following.

The CATERPILLAR, *e*, was Green, with ſmall red Lines on the *Back*. It was found on the *Sallow* at the Beginning of *September* near *Hornſey*; it ſpun it ſelf up the 14th of the ſame *Month*, and changed into *Chryſalis*; the 23d of *April* came the *Moth*, *g*, *h*.

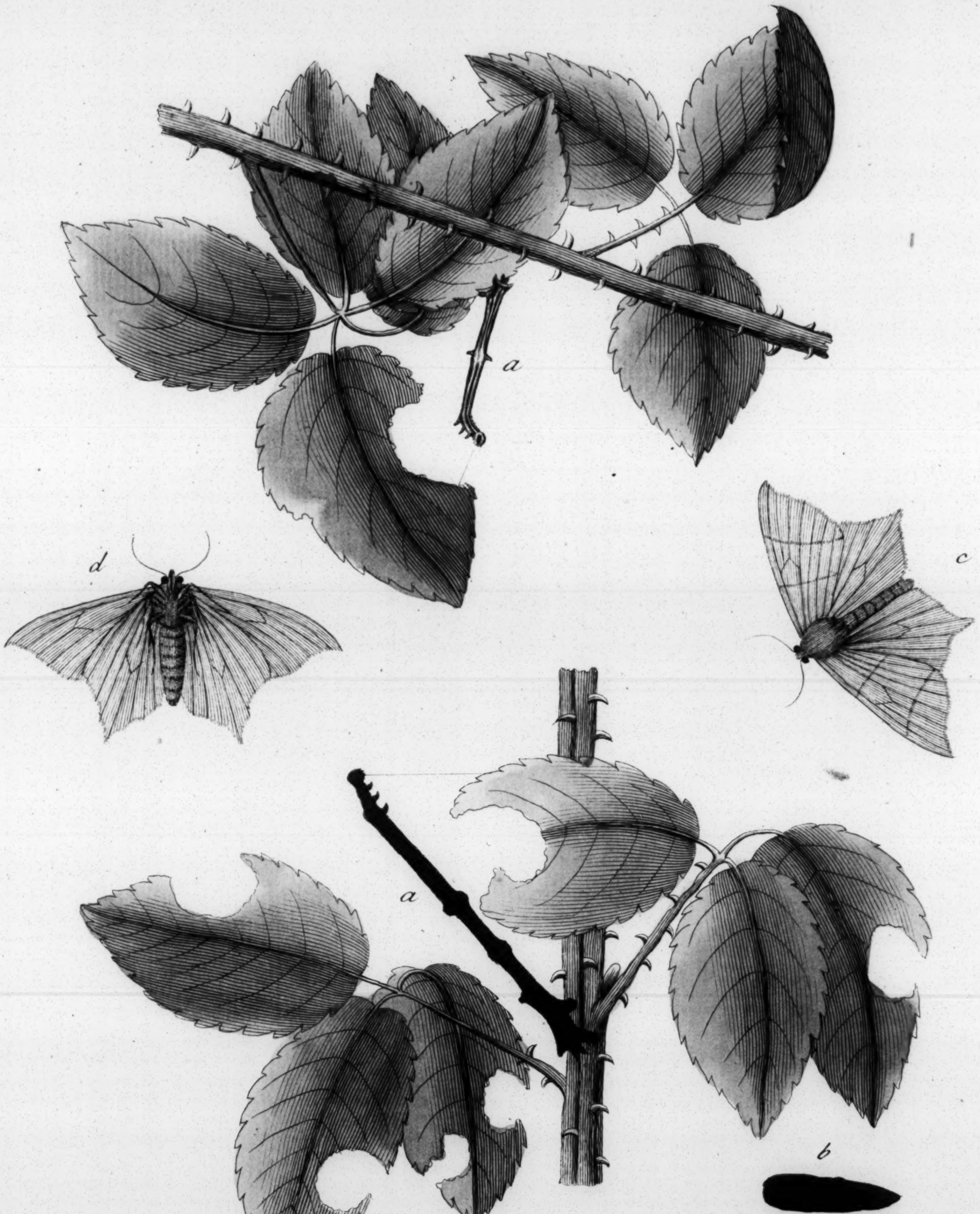
The DESCRIPTION *of the Ninety Third* PLATE.

THE CATERPILLAR, *a*, in this *Table* was found feeding on the *Oak* near *Hampſtead Heath* on the 27th of *May*; it ſpun it ſelf up in the *Leaves* at the bottom of the *Box*, and changed into *Chryſalis*, *b*, and the *Moth* came the 19th of *June*.

The CATERPILLAR, *a*, was taken on the *Oak* the 7th of *September*, and on the 18th of the ſame *Month* it ſpun its ſelf up, and changed into a *Chryſalis*, *f*; the 16th of *May* came the *Moth*, *g*, *h*.



To Mrs Mary Reade 2d Daughter of Sr Ja: Reade of Brocket-hall, Bart this Plate is humbly dedicated by Eleazar Albin.



To Thomas Frankland Esqr

This Plate is humbly dedicated by Eleaz^{r}. Albin.

The DESCRIPTION *of the Ninety Fourth* PLATE.

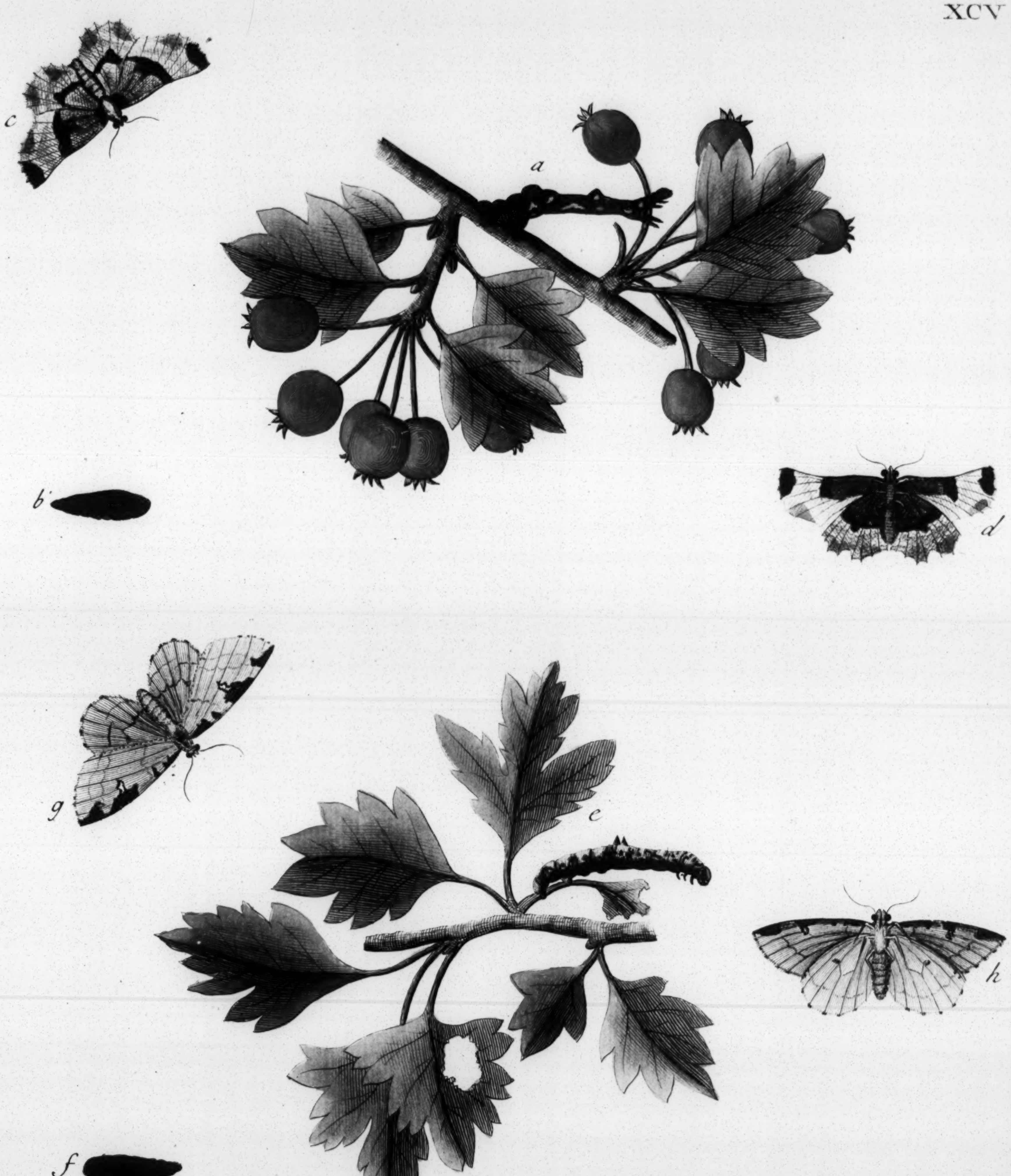
THE CATERPILLAR, *a*, was Aſh Colour, with Lines of White. It was found feeding on *Bramble Leaves* the 10th of *September* near *Highgate*. It fed all the *Winter* till the 5th of *March*, and then ſpun ſome of the *Leaves* together like a *Bag* which it hung by four or five threds, ſo that upon touching it ſwung to and fro; in which it changed into a *Chryſalis*, *c*; the *Moth*, *d*, *e*, came the 21ſt of *April*.

The CATERPILLAR, *b*, was of the ſame Kind, tho' differing in Colour; and changed about the ſame Time, and in all other Reſpects was as the former. See *Liſter on Godart*, *page* 14. *N*° 10.

The DESCRIPTION *of the Ninety Fifth* PLATE.

THE CATERPILLAR, *a*, in the *Table* was found on the *white Thorn* the 13th of *September*; it ſpun it ſelf up on the 24th of the ſame *Month*, and changed into *Chryſalis*, *b*; the *Moth*, *c*, *d*, came about the middle of *May*, it was the ſame with *g*, *h*, in the 42d *Table*. I found ſeveral of theſe CATERPILLARS which varied very much in Colour, ſome being much lighter, and ſome darker; but they all had *Protuberances* on their *Backs*.

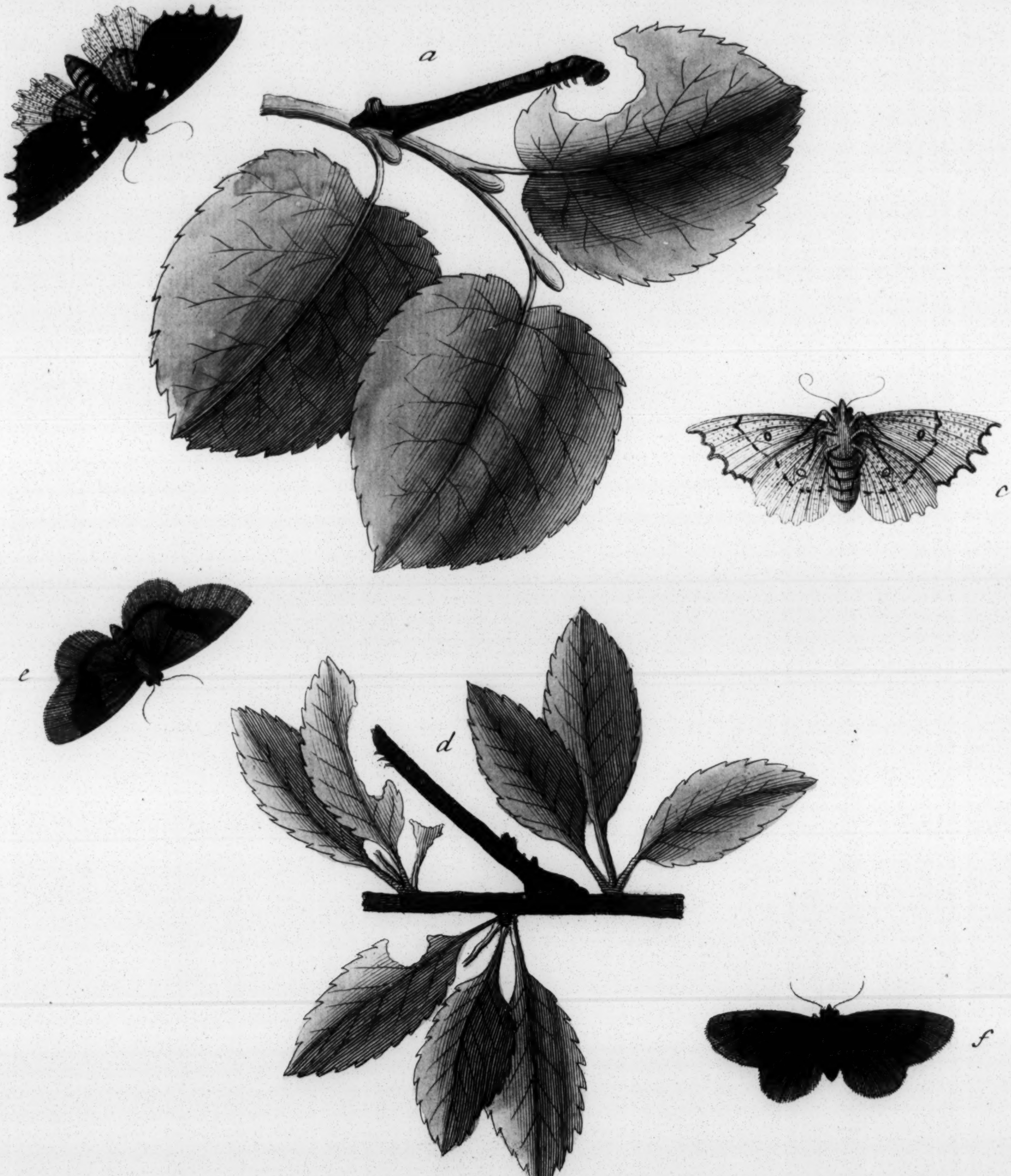
The CATERPILLAR, *e*, was found on the *white Thorn* the 15th of *September*, it was of a greeniſh Colour; and the 17th of the ſame *Month* it ſpun up in the *Leaves*, and changed into *Chryſalis*, *f*, and the 3d of *April* came a yellow *Moth*, *g*, *h*, with brown Clouds towards the *Pinions* of the *upper Wings*.



To Mrs Elizabeth Gorges Wife of John Codrington of Codrington Esqr.
this plate is humbly Dedicated by Eleazar Albin.

E. Albin del.

H: Terasson Sculp, London



To Mrs. Eliz: Edgley Hewer eldest daughter of Sr. Simeon Stuart of Hantſhire Bart.
This Plate is humbly dedicated by Eleazr. Albin.

The DESCRIPTION *of the Ninety Sixth* PLATE.

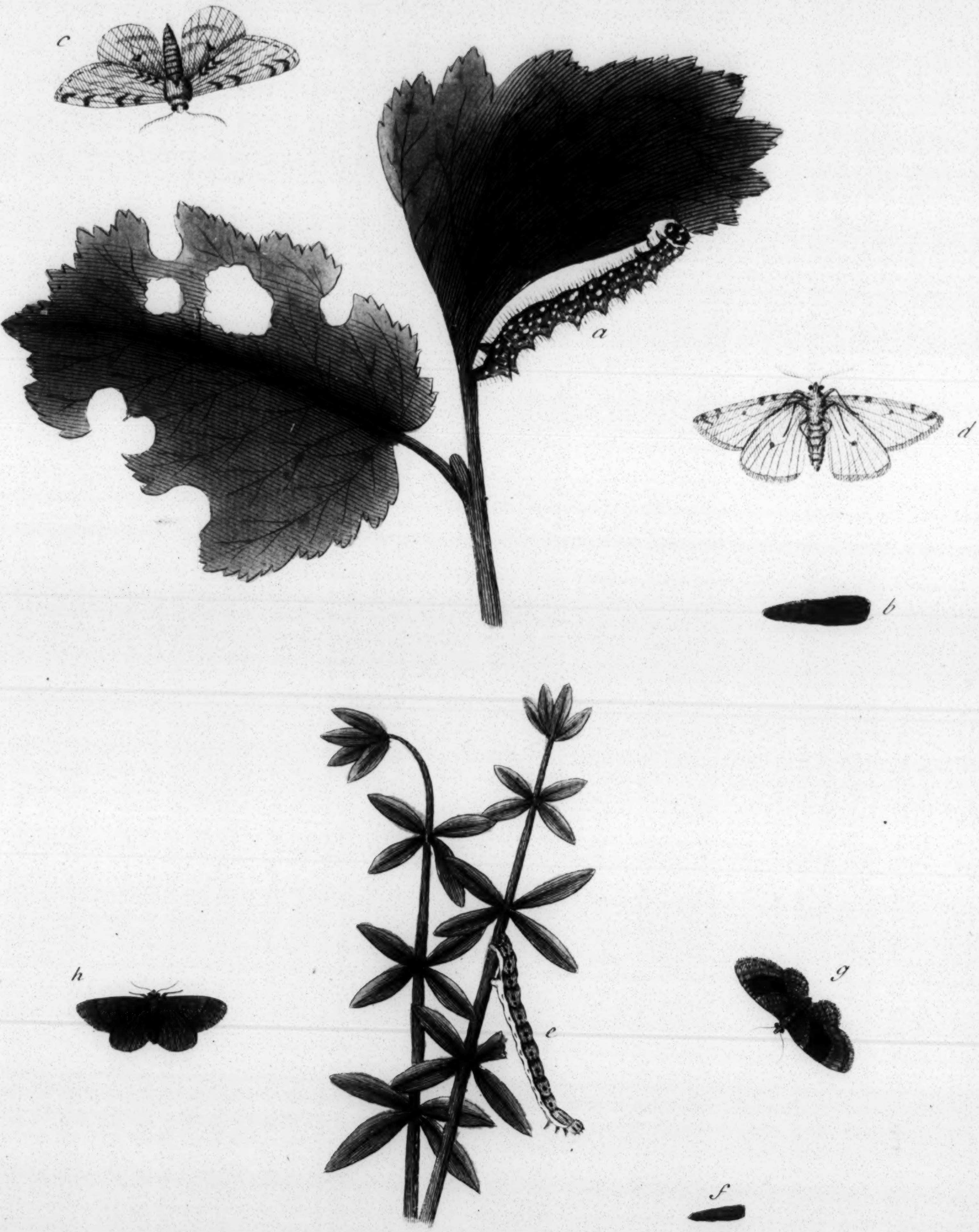
THE CATERPILLAR, *a*, in this *Table*, was found feeding on the *Haſle* the 14th of *September* near *Cain Wood*; and the 15th of *October* it ſpun it ſelf up in one of the *Leaves*, and changed into a *Chryſalis*; the *ſcallopt-wing'd Moth*, *b*, *c*, came the 19th of *April*.

The CATERPILLAR, *d*, was a of dark Red Colour, and had three *Protuberances* on its *Back* near the *Tail*. It was found on the *black Thorn* near *Bowes-farm* the 9th of *Auguſt*, and ſpun it ſelf up between the *Leaves* and the *Box* the 7th of *September*; the *Moth*, *e*, *f*, came the 20th of *March* following.

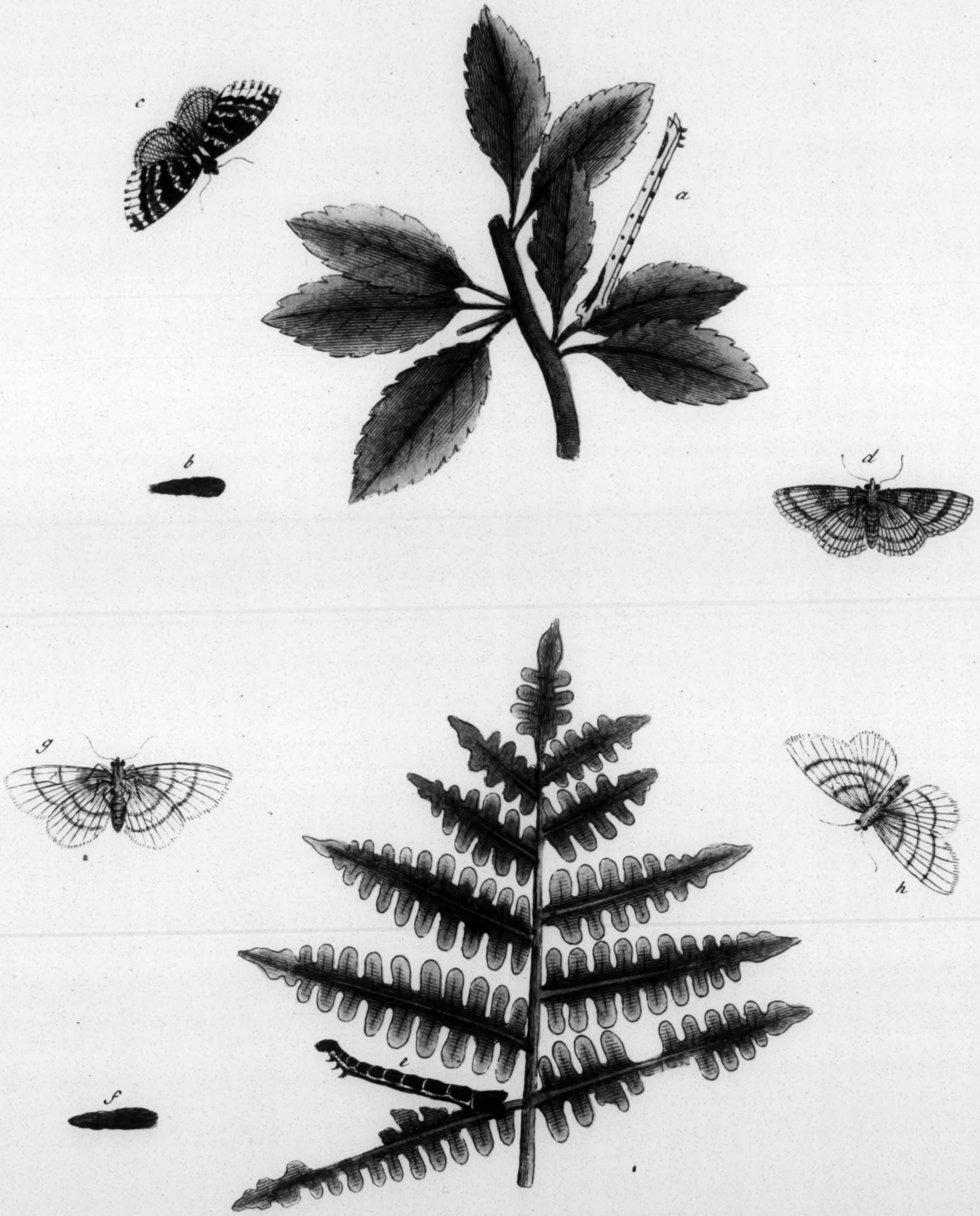
The DESCRIPTION *of the Ninety Seventh* PLATE.

THE CATERPILLAR, *a*, was a Kind of *Looper*, it was hairy, (which is not very common among them;) and beautifully marked with ſeveral Colours. It was found on the *Haſle* the 1ſt of *June*, and the 14th of the ſame *Month* it went into the *Ground*, and changed into a *Chryſalis*, *b*, and at the Beginning of *April* came the *Moth*, *c*, *d*.

The CATERPILLAR, *e*, was Aſh Colour. It was found on the *white Lady's-bedſtraw* in the *Marſhes* near *Rotherhith* the 3d of *September*; it ſpun it ſelf up the 12th of the ſame *Month*, and changed into *Chryſalis*, *f*; and the 20th of *February* came the *Moth*, *g*, *h*.



To Mrs. Sarah Elizabeth Bridges of Soho Square
This Plate is humbly dedicated by Eleaz.r Albin



To Edward Jackson of the Midle Temple Esq.r
This Plate is humbly dedicated by Eleazar Albin

The DESCRIPTION *of the Ninety Eighth* PLATE.

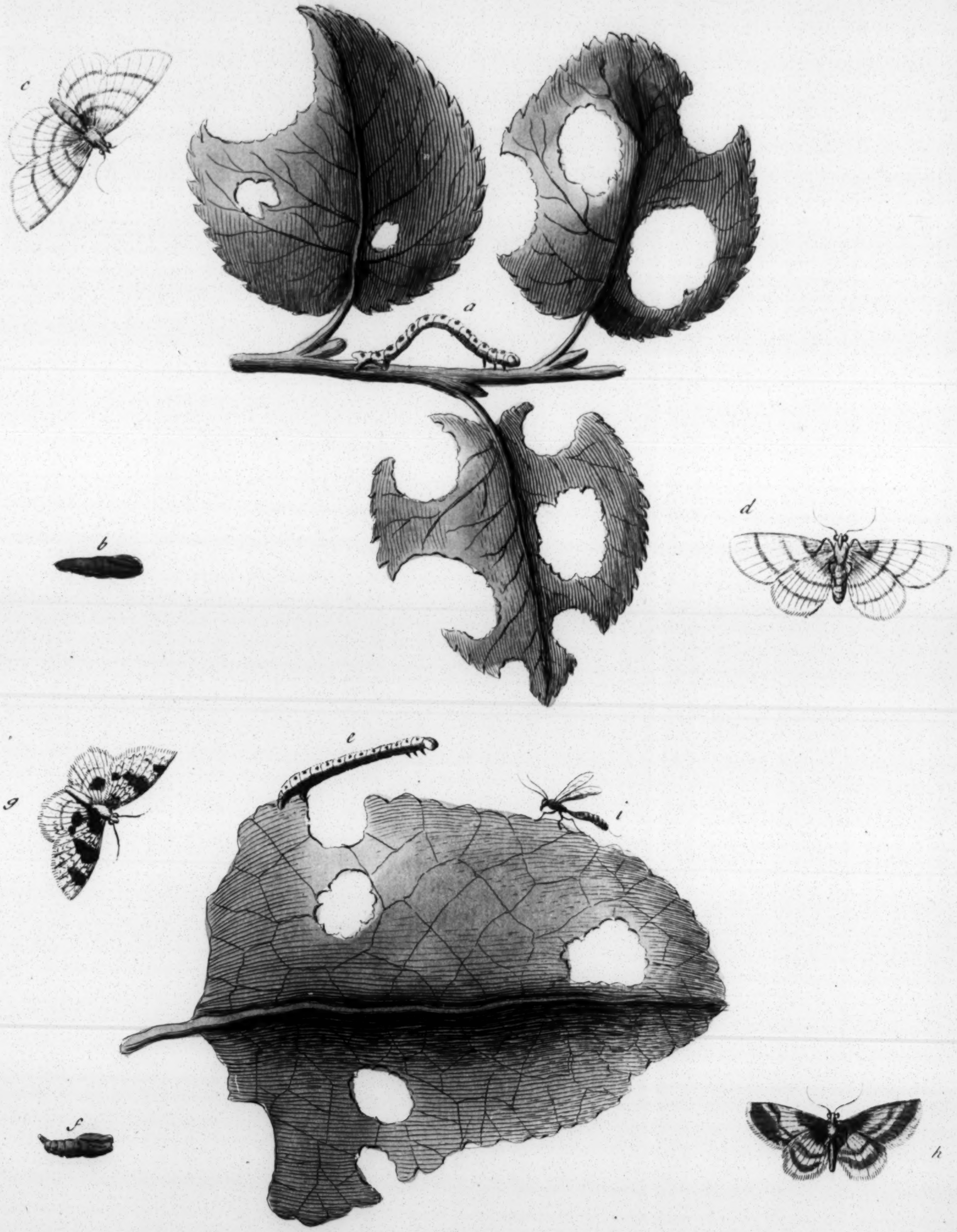
THE Greeniſh CATERPILLAR, *a*, was found feeding on the *black Thorn* near *Highgate* the 4th of *September*, and the 6th of *October* it ſpun it ſelf up in the *Leaves*, and changed into *Chryſalis*, *b*; and the 23d of *March* came the *Moth, c, d*, the *upper Wings* Yellow and White, with three dark Clouds a-croſs them, the *under Wings* and *under Side* of a light Hair Colour.

The CATERPILLAR, *e*, was of browniſh Red, with a line of White on each *Side*, and a Streak of the ſame at each *Joint* croſs the *Back*. It was found on the *Fern* the 13th of *September* in *Biſhop's-wood*; it ſpun up the 16th of the ſame *Month*, and changed into *Chryſalis f*; the *Moth*, *g*, *h*, came the 12th of *May*.

The DESCRIPTION *of the Ninety Ninth* PLATE.

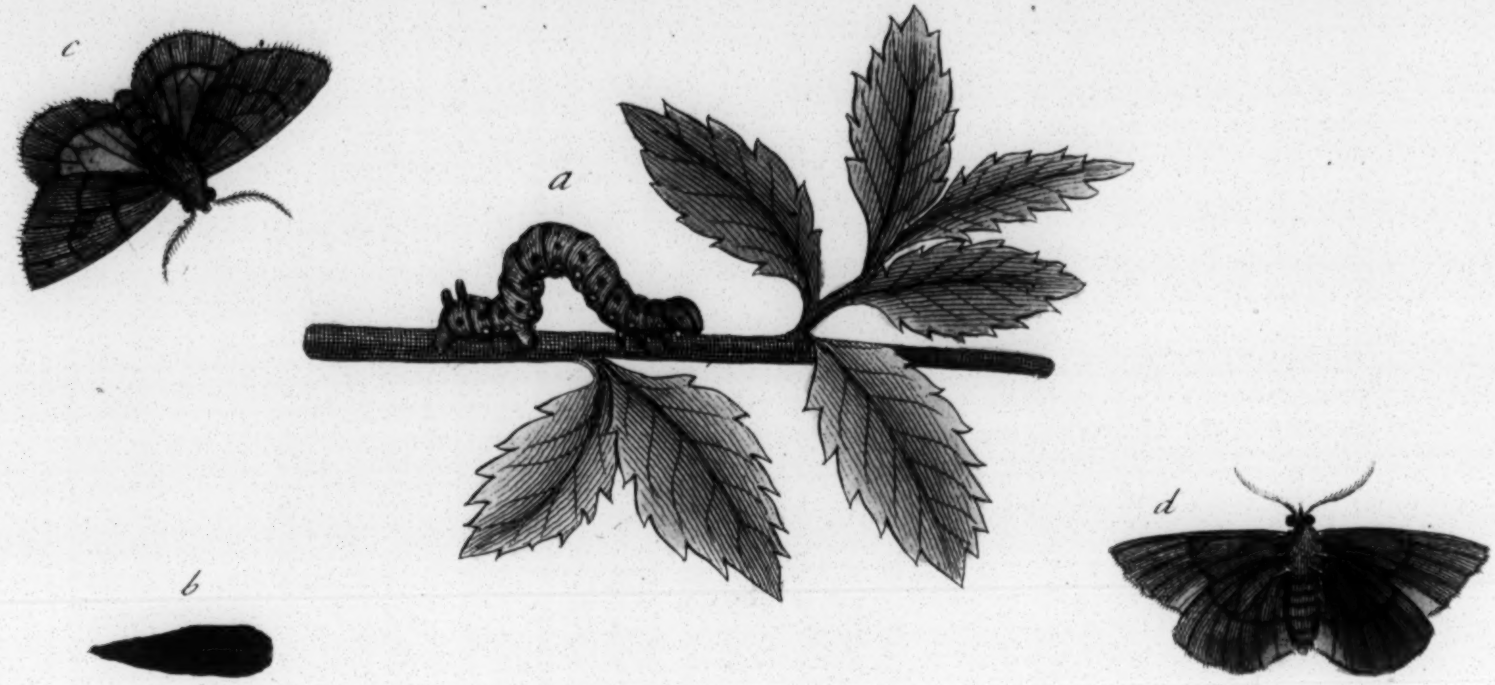
THE CATERPILLAR at, *a*, was greeniſh Yellow, ſpotted with Red on the *Back*. It was found on the *Haſle* about the middle of *September*, and ſpun it ſelf up about the 20th of the ſame *Month*, and changed into *Chryſalis* *b*; the *Moth*, *c*, *d*, came about the middle of *May* following.

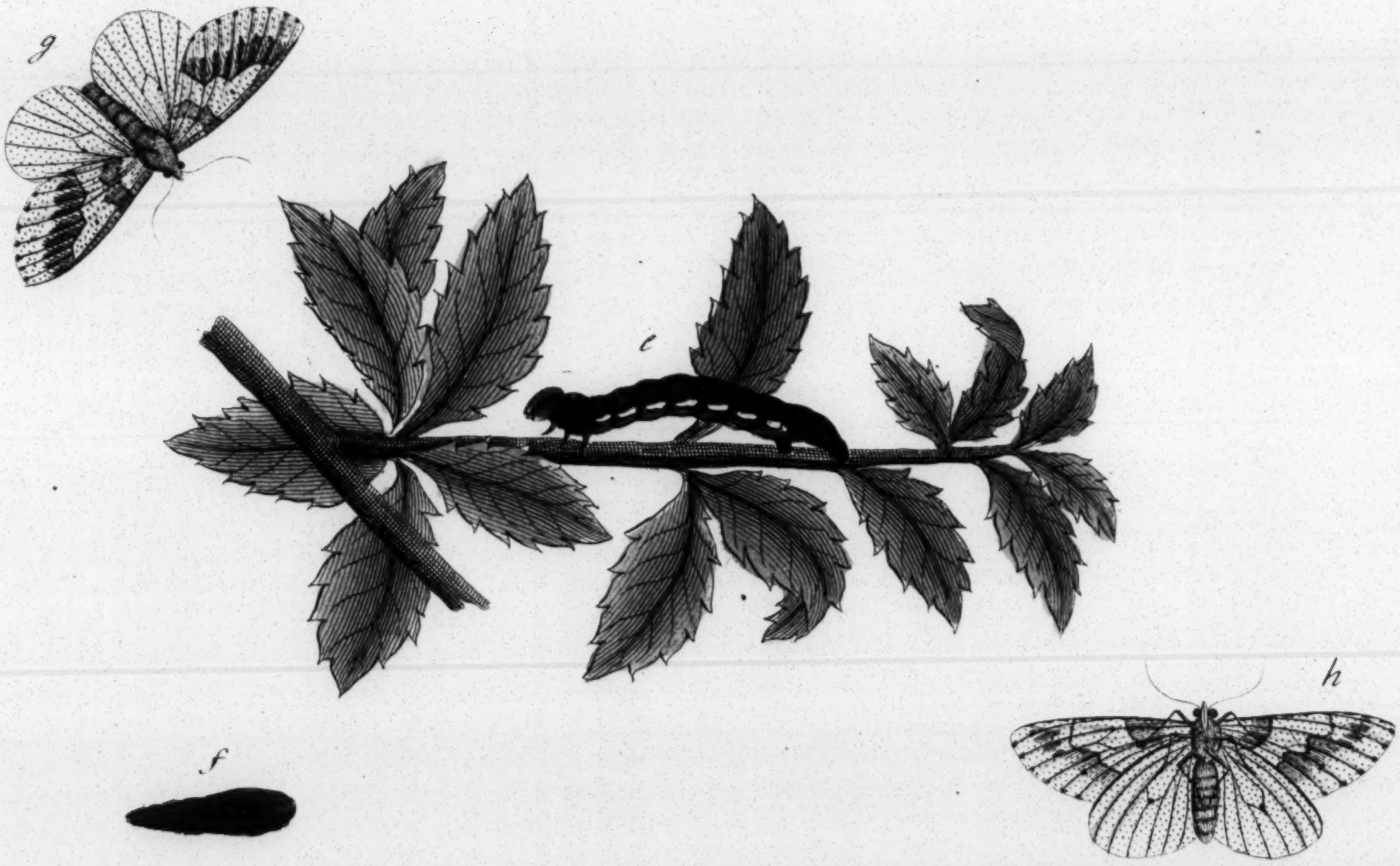
The CATERPILLAR, *e*, was pale Green, clouded and ſpotted with Brown. It was found feeding on the *Horſe-radiſh* the 18th of *September*, and the 23d of the ſame *Month* it went into the *Ground*, and changed into *Chryſalis*; the *Moth*, *g*, *h*, came the 9th of *May*.



To William Gibbons M.D.
This Plate is humbly dedicated by Eleazr. Albin

C





To Arthur Weavor of the Middle Temple Esqr
This Plate is humbly dedicated by Eleaz^{r}. Albin

The DESCRIPTION *of the Hundredth* PLATE.

THE CATERPILLAR, *a*, in this *Table* was light Brown, ſpotted with Red; it had two red *Protuberances* at the end of its *Tail*. It was found on the *black Thorn* the 10th of *May*, and the 25th of the ſame *Month* it went into the *Earth* and changed into *Chryſalis*, *b*; and the latter end of *September* came the *Moth*, *c*, *d*.

The CATERPILLAR, *e*, was Brown and ſpotted with Yellow. It was found on the *black Thorn* the 18th of *May*, and the 26th of the ſame *Month* it went into the *Earth* and changed into *Chryſalis*, *f*; and the 6th of *November* came the *Moth*, *g*, *h*, the *Female* of which is without *Wings*, and lays her *Eggs* near the Place where ſhe lay while in *Chryſalis*.